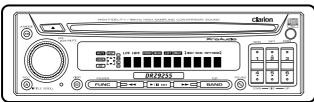


#### Clarion Co., Ltd.

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# **Service Manual**

#### CENET



(DRZ9255)



High-Fidelity AM/FM CD Player

**Model** *DRZ9255* 

(PE-2628B-A / For U.S.A.)

Model **HX-D2** 

(PE-2628K-A / For other countries)

## **SPECIFICATIONS**

FM tuner section

Frequency range: 87.9MHz to 107.9MHz(U.S.A.)

87.0MHz to 108.0MHz(OTHERS)

Usable sensitivity: 9dBf 50dB quieting sensitivity: 15dBf Alternate channel selectivity:

70dB

Stereo separation: 35dB (1kHz)

Frequency response: 30Hz to 15kHz (+/-3dB)

AM tuner section

Frequency range: 530kHz to 1710kHz(U.S.A.)

531kHz to 1629kHz(OTHERS)

Usable sensitivity: 25uV

CD player section

System: Compact disc digital audio system

Usable discs: Compact disc

Frequency response: 5Hz to 20kHz (+/-1dB)

S/N ratio: 112dB (1kHz) Dynamic range: 100dB (1kHz)

Distortion: 0.003%(20Hz to 20kHz)

Audio section

Bass control action: +/-12dB (50Hz)
Treble control action: +/-12dB (10kHz)
Line output level: Vol.0dB=4V

Vol.+6dB=8V(Max)

(CD 1kHz)

DSP/DAC

A/D conversion: 24-bit 64x oversampling  $\Delta\Sigma$ 

A/D converter

D/A conversion: 96kHz/24-bit advanced segment

D/A converter

8x oversampling digital filter Blocked band attenuation:

-130 dB

Transmitted band attenuation:

+/-0.00001dB

Sampling rate converter

Input sampling rate: fs32k, fs44.1k, fs48k,fs96k

Output sampling rate: fs48k, fs96k

DSP: 24-bit audio DSP, 34-bit arithmetic

operation (overflow margin 4-bit)

General

Power supply voltage: 14.4V DC(10.8V to 15.6V allow-

able) negative ground

Current consumption: Less than 5A

Dimensions(mm)

Source unit: 178(W)x50(H)x155(D)
DC-DC converter: 163(W)x42(H)x98(D)
Remote control unit: 52(W)x125(H)x12(D)

Weight

Source unit: 1.8kg DC-DC converter: 700g

Remote control unit: 50g(including battery)

## **NOTES**

\* Use only compact discs bearing the sign or mark.Do not play heart-shaped, octagonal, or other specially shaped compact discs.

Some CDs recorded in CD-R/CD-RW mode may not be usable

- \* We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
- \* Specifications and design are subject to change without notice for further improvement.

## **COMPONENTS**

## PE-2628B-A,PE-2628K-A

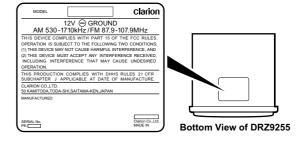
1.	Main unit		1
2.	DC-DC converter	EE-1236B-A	1
3.	Rmote controller	RCB-169-600	1
4.	Battery(CR2025)		1
5.	Strap	300-4976-00	1
6.	Universal MTG-bracket	300-9035-01	1
7.	Outer escutcheon	370-6116-00	1
8.	16-Pin extension lead(1.5m)	854-6428-00	1
	(Fuse 3A	120-0030-00	1)
9.	Memory B/U lead(YEL:3.5m)	854-6423-01	1
	(Fuse 10A	060-0057-56	1)

10. Ground lead(BLK:1.5m)	854-6424-01	1
11. Parts bag for DC-DC conver	rter	1
11-1. Mounting bracket	300-7362-02	2
11-2. Terminal cover	345-7403-00	1
11-3. Tapping screw	700-5016-89	4
11-4. Machine screw(M5x8)	714-4008-89	4
11-5. Plate nut	725-0216-00	4
12. Parts bag for source unit		1
12-1. Hook plate	330-8216-03	2
12-2. Lead holder	335-0833-03	1
12-3. Hexagonal screw(M5x8)	716-0496-01	1

## **CAUTIONS**

Use of controls, adjustment or performance of procedures other than those specified herein, may result in hazardous radiation exposure.

The COMPACT DISC player should not be adjusted or repaired by anyone except properly qualified service personnel.



# To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company. 4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly(more than three times)to the same patterns. Also take care not to apply the tip with force.

- Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.
- 8. Cautions in checking that the optical pickup lights up. The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.
- 9. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

#### 9-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

#### 9-2. Actuator

The actuator has a powerful magnetic circuit. If a

magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

#### 9-3. Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

## SYSTEM CHECK

The first time this unit is turned on after the wire connections are completed, it must be checked what equipment is connected. When the power is turned on, "SYSTEM CHK" and "Push POWER" appear in the display alternately, so press the [FUNC] button. The system check starts within the unit. When the system check is complete, press the [FUNC] button again.

#### Digital wiring

When the optical digital cable is connected to or disconnected from this set later, press the function button while holding down direct buttons [1] and [6] with the power OFF to perform a system check.

Though pressing the reset button also performs a system check, the contents of memory will be erased completely in this case.

## **ERROR DISPLAYS**

If an error occurs, one of the following displays is displayed.

Take the measures described below to eliminate the problem.

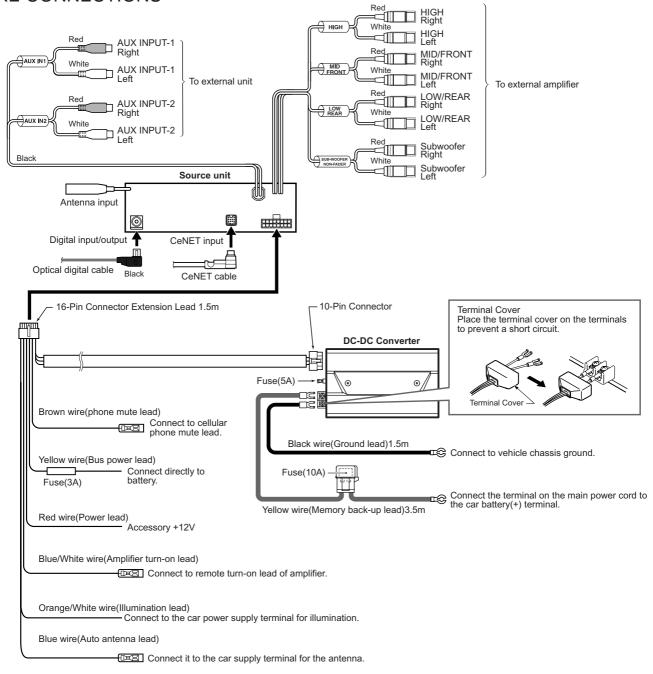
	Error Display	Cause	Measure
СО	ERROR 2	A CD is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism.
	ERROR 3	A CD cannot be played due to scratches,etc.	Replace with a non-scratched,non-warped-disc.
CD changer	ERROR 2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism.
	ERROR 3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
	ERROR 2	A DISC inside the DVD changer cannot be played.	This is a failure of DVD mechanism.
e	ERROR 3	A DISC cannot be played due to scratches,etc.	Retry or replace with a non-scratched, non-warped-disc.
DVD changer	ERROR 6	A DISC inside the DVD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
۵	ERROR P	Parental level error	Set the correct Parental level.
	ERROR R	Region code error	Eject the disc and replace correct region code disc.



If an error display other than the ones described above appears, press the reset button.

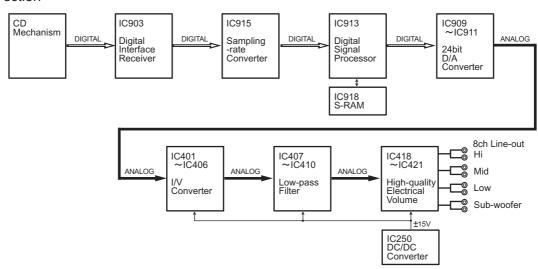
Reset button

# WIRE CONNECTIONS

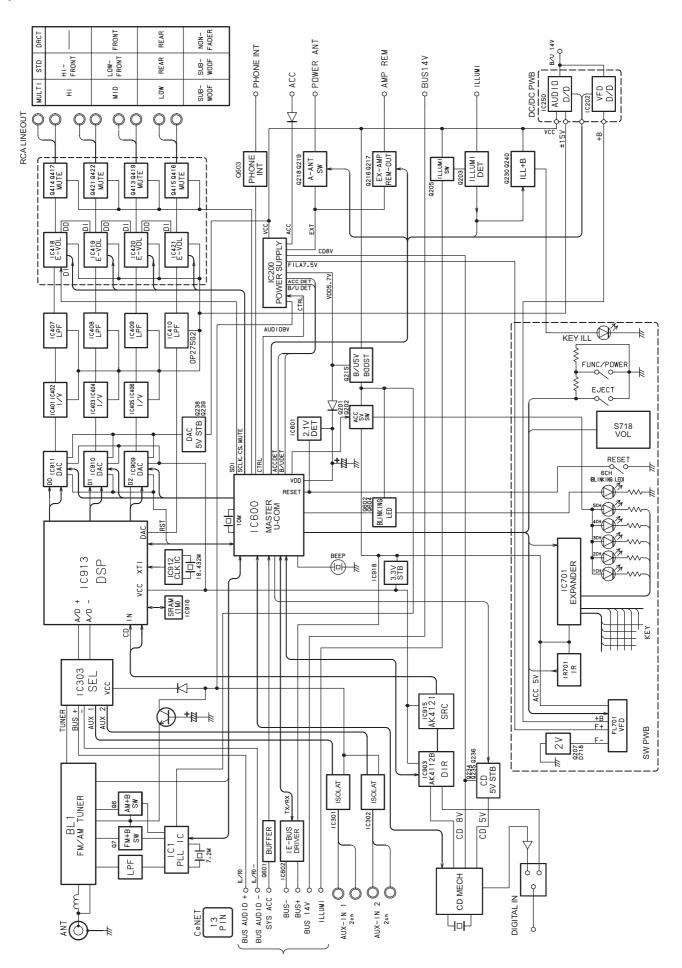


## **BLOCK DIAGRAM**

#### Audio line sction



## System section



052-3393-00	M30622MFP-161GP

052-3393-00 M30622	MEP-161GP	System Controller
Terminal Description		
pin 1: CD SBSY	:IN: The sub Q data from the CD IC.	request command input
pin 2: TIME BASE	: IN: Time base pulse	input.
pin 3: DSP RDY	: IN: Ready signal inp	out from the DSP IC.
pin 4: NU	: - : Not in use.	
pin 5: REMOCON	: IN : Remote controlle	r signal input terminal.
pin 6: BYTE	: IN: The data length	- :
pin 7: CN VSS	: IN: Connect to VSS.	
pin 8: INIT 1		ng input. Refer Table 1.
pin 9: INIT 2		ng input. Refer Table 1.
pin 10: RESET	:IN: Reset signal inpu	- :
pin 11: X out	: O : Crystal connection	
pin 12: VSS	: - : Negative voltage	
pin 13: X IN	: IN: Crystal connection	
•		
pin 14: VCC	: - : Positive voltage	suppry.
pin 15: NU	: - : Not in use.	innal innut
pin 16: ACC DET	: IN : ACC detection si	
pin 17: BU DET	: IN : Backup detection	•
pin 18: KEY INT	: IN : Key interrupting	-
pin 19: 27pinConnect	: IN: Connect to pin 2	
pin 20: VFD BLANK	: O : Blank pulse outp	
pin 21: BUS IN/out	: O : The audio signal	control for Ce-NET.
pin 22: BEEP	: O : Beep out.	
pin 23: E VOL CS	Volume IC.	signal output to Electric
pin 24: E VOL SD	: O : The serial data (	output to Electric Volume
pin 25: E VOL SCLK	: O : The serial clock IC.	output to Electric Volume
pin 26: CLK REF	: O : Reference clock	pulse output.
pin 27: IE BUS RX	: IN: IE Bus serial dat	ta input.
pin 28: IE BUS TX	: O : IE Bus serial dat	a output.
pin 29: EMULATOR TX	: O : The serial data of	output to the emulator.
pin 30: EMULATOR RX	: IN: The serial data i	nput from the emulator.
pin 31: CONNECT G	: - : Connect to the g	round.
pin 32: NU	: - : Not in use.	
pin 33: VFD SO	: O : The serial data of	output to the VFD driver.
pin 34: NU	: - : Not in use.	
pin 35: VFD CLK	: O : The clock pulse	output to the VFD driver.
pin 36: VFD LAT	: O : The latch strove driver.	signal output to the VFD
pin 37: JOG CW	:IN: Jog key signal ir	nput.
pin 38: JOG CCW	:IN: Jog key signal ir	
pin 39: CONNECT G	: - : Connect to the g	
pin 40: CATS LED	: O : CATS LED drive	•
pin 41: KEY Set	: O : Set signal output	•
'		signal output to the key
pin 43: KEY CLK		output for the key scan IC.
pin 44: CONNECT G	: - : Connect to the g	•
pin 45: KEY DI	:IN: Key scan data in	
pin 46: KEY DO		output to the Key scan IC.
pin 47: LD MUTE		put to the CD mechanism.
pin 48: LD CONT	: O : The laser diode	•
pin 49: CD TR A	: IN: The photo senso	r signal input from the CD
pin 50: CD TR B	mechanism. :IN: The photo senso mechanism.	r signal input from the CD
pin 51: CD CHK SW	: IN : CD disc chucking	g signal input.
pin 52: CD SSTOP	detects the insid	ts the chucking. And next, le limit of the pick up po-
nin 53: CD DECET	sition.	output to the CD IC
pin 53: CD RESET pin 54: CD CCE		signal output to the CD
-i- FF. OD DU OV	IC.	
pin 55: CD BU CK	: O : CD IC clock puls	se output.
pin 56: CD BUS 3	:I/O: The data bus.	
pin 57: CD BUS 2	:I/O: The data bus.	
pin 58: CD BUS 1	:I/O: The data bus.	
nin 50. CD BLIS 0	·I/O· The data bus	

pin	60: VCC	: - : Positive voltage supply.
pin	61: CD 5V	: O : 5V power supply ON signal output for CD.
pin	62: VSS	: - : Negative voltage supply.
pin	63: REG CTRL	: O : Power supply IC control signal output.
pin	64: 5V REM	: O:5V power supply ON signal output.
pin	65: PLL SI	:IN: Serial data input from the PLL IC.
pin	66: PLL SO	: O : Serial data output to the PLL IC.
pin	67: PLL SCK	: O : The clock pulse output to the PLL IC.
pin	68: PLL CE	: O : The chip enable signal output to the PLL IC.
pin	69: ST SD	:IN: At receiving the FM station, this port detects the stereo signal. At seeking or scanning, this port detects the station detection signal.
pin	70: VFD DD ON	: O : VFD DD converter ON signal output.
pin	71: ILL DET	:IN: Illumination ON signal input.
pin	72: DIR ERF	:IN: Unlock & Parity error flag input from the DIR IC.
pin	73: PHONE INT	:IN: The telephone interrupt signal input.
•	74: AUTO ANT	: O : Motor antenna control signal output.
•	75: AMP REM	: O : Standby signal output to Audio power amplifier.
pin	76: DIG In/Out sel	: O : Digital input/output selection.
	77: SYS MUTE	: O : System muting signal output.
	78: PRE MUTE	: O : Pre-mute signal output.
•	79: SEL CLK	: O : The serial clock output to the audio selec-
		tor IC.
pin	80: SEL DATA	: O : The serial data output to the audio selector IC.
pin	81: KEY ILL REM	: O : Key illumination ON signal output.
pin	82: DAC MC	: O : Clock pulse output to the DAC.
pin	83: DAC MD	: O : Serial command data output to the DAC.
pin	84: DAC MS	: O : Chip select output to the DAC.
pin	85: DIR PDN	: O : The power down signal output to the DIR IC.
pin	86: PCM DET	: IN: Non-PCM detection signal input.
pin	87: DIR CDT O	: O : The control data output to the DIR IC.
pin	88: DIR CCLK	: O : The control clock output to the DIR IC.
pin	89: DIR CSN	: O : The chip select output to the DIR IC.
pin	90: DSP INIT RST	: O : The reset signal output to DSP IC.
pin	91: DSP RST	: O : Reset pulse output to the DSP IC.
pin	92: SYS ACC	: O : ACC detect signal output.
pin	93: DSP REQ	: O : Request signal output to DSP IC.
pin	94: A VSS	: - : Negative voltage supply for analog section.
pin	95: KEY AD	:IN:Input terminal of A/D converter for Key judgment.
pin	96: Vref	: - : Reference voltage.
pin	97: A VCC	: - : Positive voltage supply for the internal analog section.
pin	98: DSP SI	:IN: Serial data input from the DSP IC.
pin	99: DSP SO	: O : Serial data output to the DSP IC.
pin′	100: DSP SCK	: O : The clock pulse output to DSP IC.

Table 1. Destination setting

	Japan	Noth Amer	ica Asia	
INIT 1 ( pin 8	B) H	Н	L	
INIT 2 ( pin 9	9) H	L	L	

DRZ9255 HX-D2

pin 59: CD BUS 0

:I/O: The data bus.

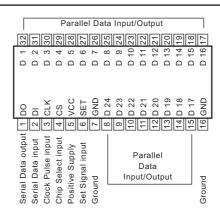
051-6705-00 AK7720	DA Audio DSP with 2ch ADC and 6ch DAC	pin 61: I/O 3	:I/O: Data input/output
		pin 62: I/O 4	:I/O: Data input/output.
Terminal Description		pin 63: I/O 5	:I/O: Data input/output.
pin 1: LFLT	:IN: The capacitor and the resistor connection terminal for PLL.	pin 64: I/O 6	:I/O: Data input/output.
pin 2: A VSS	: - : Analog ground.	pin 65: I/O 7	:I/O: Data input/output.
pin 3: A VDD	: - : Positive supply voltage for the Analog sec-	pin 66: D VDD	<ul> <li>: - : Positive supply voltage for the digital sec tion.</li> </ul>
p 0.7. 122	tion.	pin 67: D VSS	: - : Digital ground.
pin 4: INIT RESET	:IN: The initial reset input.	pin 68: TEST	: - : For the Test.
pin 5: CODEC RESET	T:IN:The CODEC reset input.	pin 69: TEST	: - : For the Test.
pin 6: DSP RESET	:IN: DSP reset input.	pin 70: B VSS	: - : Ground.
pin 7: S MUTE	: IN: The soft muting command input.	pin 71: A OUT 3 R-	: O : Inverted Right channel audio signal output
pin 8: B VSS	: - : Ground for the bus interface section.		of DAC-3.
pin 9: PLL	:IN: Open or Connect to DVSS usually.	pin 72: A OUT 3 R+	: O : Non-inverted Right channel audio signa
pin 10: CKS	: IN: The clock pulse selection.	nin 72: NIII	output of DAC-3. : - : Not in use.
pin 11: S Data in A	:IN: DSP serial data input. Open or connect to	pin 73: NU pin 74: A OUT 3 L-	: O : Inverted Left channel audio signal output of
nin 10, C Data in 1	DVSS usually.	piii 74. A 001 3 L-	DAC-3.
pin 12: S Data in 1 pin 13: S Data in 2	:IN:DSP serial data input. :IN:DSP serial data input.	pin 75: A OUT 3 L+	: O : Non-inverted Left channel audio signal out-
pin 14: S Data out 1	: O : DSP serial data output.		put of DAC-3.
pin 15: S Data out 2	: O : DSP serial data output.	pin 76: A OUT 2 R-	: O : Inverted Right channel audio signal output
•	D: O: DSP/ADC serial data output.	pin 77: A OUT 2 R+	of DAC-2.
pin 17: S D OUT	: O : The serial data output.	piii 77. A OO1 2 K+	<ul> <li>: O : Non-inverted Right channel audio signa output of DAC-2.</li> </ul>
pin 18: LR CK I/O	:I/O: SMODE(pin20) = L : 1fs clock input.	pin 78: NU	: - : Not in use.
	SMODE(pin20) = H : 1fs clock output.	pin 79: A OUT 2 L-	: O : Inverted Left channel audio signal output of
pin 19: BIT CLK	:I/O: SMODE(pin20) = L : 64fs clock input.	•	DAC-2.
	SMODE(pin20) = H : 64fs clock output.	pin 80: A OUT 2 L+	: O : Non-inverted Left channel audio signal out-
pin 20: S MODE	: IN: Slave master selection.	nin 04. NIII	put of DAC-2.
pin 21: Clock Out	: O : Clock Out.	pin 81: NU	: - : Not in use.
pin 22: D VSS	: - : Digital ground.	pin 82: A OUT 1 R-	<ul> <li>: O : Inverted Right channel audio signal output of DAC-1.</li> </ul>
pin 23: D VDD	: - : Positive supply voltage for the digital section.	pin 83: A OUT 1 R+	: O : Non-inverted Right channel audio signa
pin 24: XT I	: IN: Oscillation terminal.	p • • • • • • • • • • • • • • • • • •	output of DAC-1.
pin 25: XT O	: O : Oscillation terminal.	pin 84: NU	: - : Not in use.
pin 26: JX	:IN: External jumping signal input.	pin 85: A OUT 1 L-	: O : Inverted Left channel audio signal output of
pin 27: RQ	:IN: The request signal input from the master	: 00 A OUT 4 I	DAC-1.
'	side.	pin 86: A OUT 1 L+	<ul> <li>: O : Non-inverted Left channel audio signal output of DAC-1.</li> </ul>
pin 28: S CLK	: IN: Sift clock input.	pin 87: Vr DAC Low	:IN: The reference voltage input.
pin 29: SI	: IN: Serial data input.	pin 88: A VSS	: - : Analog ground.
pin 30: SO	: O : Serial data output.	pin 89: A VSS	: - : Analog ground.
pin 31: Write Ready	: O : Write ready flag output.	pin 90: A VDD	: - : Positive supply voltage for the Analog sec-
pin 32: Data Ready	: O : Data output ready flag output.		tion.
pin 33: CAS	: O: The column address strobe output to DRAM.	pin 91: Vr DAC High	: IN: The reference voltage input.
pin 34: RAS	O: The row address strobe output to DRAM.	pin 92: NU	: - : Not in use.
pin 35: WRITE ENBL	: O : The write enable signal output.	pin 93: Vr ADC Low	: IN: The reference voltage input.
pin 36: D VDD	: - : Positive supply voltage for the digital sec-	pin 94: A VSS	: - : Analog ground.
	tion.	pin 95: A VDD	: - : Positive supply voltage for the Analog section.
pin 37: D VSS	: - : Digital ground.	pin 96: Vr ADC High	:IN: The reference voltage input.
pin 38: A 0	: O : Address signal output.	pin 97: A IN R-	:IN: Inverted Right channel audio signal input.
pin 39: A 1	: O : Address signal output.	pin 98: A IN R+	:IN: Non-inverted Right channel audio signa
pin 40: A 2	: O : Address signal output.		input.
pin 41: A 3	: O : Address signal output.	pin 99: A IN L-	: IN: Inverted Left channel audio signal input.
pin 42: A 4	: O : Address signal output.	pin100: A IN L+	:IN: Non-inverted Left channel audio signal in-
pin 43: A 5	: O : Address signal output.		put.
pin 44: A 6	: O : Address signal output.		
pin 45: A 7	: O : Address signal output.		
pin 46: A 8	: O : Address signal output.		
pin 47: A 9	: O : Address signal output.		
pin 48: A 10	: O : Address output to the external DRAM.		
pin 49: A 11	: O : Address eignal output		
pin 50: A 12 pin 51: A 13	: O : Address signal output. : O : Address signal output.		
pin 51: A 13	: O : Address signal output.		
pin 53: A 15	: O : Address signal output.		
pin 54: A 16	: O : Address signal output.		
pin 55: D VDD	: - : Positive supply voltage for the digital sec-		
	tion.		
piii 00. b Vbb	Di ii i		
pin 56: D VSS	: - : Digital ground.		
	: - : Digital ground. : O : The output enable command output.		
pin 56: D VSS			
pin 56: D VSS pin 57: OUT ENABLE	: O : The output enable command output.		

051-6399-00 TC94A15F CD IC Terminal Description pin 1: IPF OUT : O: IP flag output. pin 2: SB OK O : O : Sub code Q data CRCC OK signal output. pin 3: CLOCKIO :I/O: The clock pulse input/output for the sub code reading. pin 4: VDD : - : Positive supply voltage. pin 5: VSS : - : Negative supply voltage. pin 6: DATA : O : DATA pin 7: SF SY O : O : Playback frame synchronous signal output. pin 8: SB SY O : O : Sub code block synchronous signal output. pin 9: HSO : O: The play speed flag output. pin 10: UHSO : O: The play speed flag output. pin 11: AR SEL IN :IN: Fix to the high level. : O: The control signal output for the active pin 12: AWRC wide range VCO. pin 13: P VDD : - : PLL positive supply voltage. pin 14: PDO : O: Phase difference signal output of EFM-PLCK. : O : T max judgment output. pin 15: TMAX S pin 16: TMAX : O: T max judgment output. pin 17: LPF N : IN: Inverted input of LPF for PLL. pin 18: LPF OUT : O: The output terminal for the Low Pass Filter pin 19: P Vref : - : PLL reference voltage. pin 20: VCO FILTER : O : Loop filter for VCO. pin 21: VCO Ref : IN: VCO reference voltage input. pin 22: DTC N : O : For the analog slicer. pin 23: DTC P : O : For the analog slicer. pin 24: PLL VSS : - : PLL ground. pin 25: SLCO : O : Output of internal DAC for data slice level generation. pin 26: RF IN : IN: RF signal input. pin 27: RF RP : IN: RF ripple input. pin 28: RF EQ OUT : O: The output of the RF equalizer. pin 29: A VDD : - : Positive supply voltage for the Analog section pin 30: RES IN : - : For reference current setting pin 31: Vref OUT : O: The reference voltage output. pin 32: VMDIR : O : The reference voltage output. pin 33: TESTR : O: The compensation terminal for RFEQO offpin 34: INVSEL : IN: MDI polarity selection. : IN: The input terminal of RF AGC amplifier. pin 35: AGCI pin 36: RF DCI : IN: The input terminal for RF peak detection. pin 37: RF OUT : O : RF signal output. pin 38: PN SEL : IN: The transistor type selection input for laser diode driver. L=NPN, H=PNP pin 39: EQ SET : O: The equalizer setting terminal. pin 40: RF VDD : - : RF power supply. pin 41: LDO : O: The laser diode drive output. pin 42: MDI : IN: Monitor photo diode signal input. pin 43: RF VSS : - : RF ground. pin 44: FNI 2 : IN: Main beam signal input. pin 45: FNI 1 : IN: Main beam signal input. pin 46: FPI 2 : IN: Main beam signal input. pin 47: FPI 1 :IN: Main beam signal input. pin 48: TPI : IN: Sub beam signal input. pin 49: TNI :IN: Sub beam signal input. pin 50: FTEO : O : For test. pin 51: RF ZI :IN:RF ripple zero cross signal input. pin 52: A VSS : - : Analog ground. pin 53: RF RP : O: RF ripple signal output. pin 54: RF DC : O: RF peak detection signal output. (hologram suitable) pin 55: FEI : O: Focus error signal output. pin 56: SBAD : O : Sub beam add signal output. pin 57: TEI : O: Tracking error signal output. pin 58: TE Z IN : IN: Tracking error signal inpur for zero cross. pin 59: A VDD : - : Positive supply voltage for the Analog sec-

: O : Focus equalizer output.

pin 61: TRO : O : Tracking equalizer output. pin 62: Vref : O : Reference voltage output. pin 63: FMO : O : Field equalizer output / Speed error output. pin 64: DMO : O : Disk equalizer output. :I/O: General input/output. pin 65: IO2A pin 66: IO3A :I/O: General input/output. pin 67: MONIT : O : Internal DSP signal monitor. pin 68: FG IN : IN: FG input for the spindle CAV servo. pin 69: VSS : - : Negative supply voltage. pin 70: VDD : - : Positive supply voltage. pin 71: TESIN : IN: For test. pin 72: X VSS : - : Master clock analog ground. : IN: Crystal connection. pin 73: X IN : O: Crystal connection. pin 74: X O pin 75: X VDD : - : Clock power supply. pin 76: D VSS : - : Digital ground. pin 77 RO : O : Right channel data output for 1-bit DAC. pin 78: D VDD : - : Positive supply voltage for the digital secpin 79: D Vref : O : Digital reference voltage. pin 80: LO : O : Left channel data output for 1-bit DAC. pin 81: D VSS : - : Digital ground. pin 82: Z DET O : O: 1bit DAC zero flag output. pin 83: VSS : - : Negative supply voltage. pin 84: BUS 0 :I/O: CD IC Data input / output pin 85: BUS 1 :I/O: CD IC Data input / output. pin 86: BUS 2 :I/O: CD IC Data input / output. pin 87: BUS 3 :I/O: CD IC Data input / output. pin 88: BU CK IN : IN: CD IC Data clock input. pin 89: CCEI : IN: Chip enable input. pin 90: RSTI : IN: Reset signal input. : - : Positive supply voltage. pin 91: VDD pin 92: EMPHI/FAO :I/O: Emphasis input for 1-bit DAC / Flag A output. pin 93: BCKI/FBO :I/O: Bit clock input for 1-bit DAC / Flag B output. pin 94: AIN/FCO :I/O: Audio input for 1-bit DAC / Flag C output. pin 95: LRCKI/FDO :I/O: LR clock input for 1-bit DAC / Flag D output. pin 96: EMPHO : O : Emphasis flag output. H=Emphasis ON. pin 97: B CK O : O : Bit clock output. pin 98: A OUT : O : Audio signal output. pin 99: LR CK O : O : LR clock output. pin100: D OUT : O : Serial data output.

051-6643-90 M66010GP 24-bit I/O Expander



pin 60: FOO

051-	6373-18	AK4112BV	'F Digital Interface Receiver
Tern	ninal Descr	iption	
pin	1: D VDE	) :	<ul> <li>: Positive voltage supply for the digital section.</li> </ul>
pin	2: D VSS	:	- : Digital ground.
pin	3: T VDD	:	- : Positive voltage supply for output-buffer.
pin	4: VALID	ITY : (	O: Validity flag output in the parallel mode.
	: TX	: (	O: Transmit channel (through data) output in serial mode.
pin	5: XT I	:1	N: Oscillation terminal.
pin	6: XT O	: (	O : Oscillation terminal.
pin	7: PDN	:1	N: Power down & reset signal input.
pin	8: RESIS	T :	- : The resistor connection.
pin	9: A VDD	) :	- : Positive voltage supply for analog section.
pin	10: A VSS	: •	- : Negative voltage supply for analog section.
pin	11: RX 1	:1	N: The receiver channel 1 in serial mode.
pin	12: DIF 0	:1	N: The audio data format selection in parallel mode, refer Table 1.
	:RX 2	:1	N: The receiver channel 2 in serial mode.
pin	13: DIF 1	:1	N: The audio data format selection in parallel mode, refer Table 1.
	: RX 3	:1	N: The receiver channel 3 in serial mode.
pin	14: DIF 2	:1	N: The audio data format selection in parallel mode, refer Table 1.
	: RX 4	:1	N: The receiver channel 4 in serial mode.
pin	15: PCM [	DET : (	O: Non-PCM detect. L = Non detect.
pin	16: PARA/	SERI :I	N: Parallel("H")/Serial("L") mode select input.
pin	17: FS96	: (	D:96kHz Sampling detect. RX mode H: fs = 88.2kHz or more L: fs = 54kHz or less Xtal mode H: XFS96 = 1 L: XFS96 = 0
pin	18: ERF		O: Unlock & Parity error output. L = No error.
•	19: LR CK		O: Left/Right clock.
•	20: SDT C		O: The audio serial data output.
pin	21: BI CK	:1/	O: Audio serial data clock.
pin	22: D AUX	( :1	N: Auxiliary audio serial data input.
	23: MCK (		D : Master clock output, refer Table 2.
	24: MCK (		D: Master clock output, refer Table 2.
pin	25: OCK 8		N: Output clock select in parallel mode. refer Table 2.
	: CSN	:1	N: Chip select input in serial mode.
pin	26: OCK 5	Sel 1 :I	N: Output clock select in parallel mode. refer Table 2.
	: C CLK		N: Control clock input in serial mode.
pin	27: CM 1	:1	N: Master clock operation select input in par- allel mode, refer Table 3.
	: CDTI		N: Control data input in serial mode.
pin	28: CM 0	:1	N: Master clock operation select input in par- allel mode, refer Table 3.
	: CDTO	: (	D: Control data output in serial mode.

DIF 2	DIF 1	DIF 0		D AUX	SDT O	LR CK	BI CK
(pin 14)	(pin 13)	(pin 12)		(pin 22) 24bit	(pin 20) 16bit	(pin 19) H/L	(pin 21) 64fs
0	0	0		Left justified	Right justified	Output	Output
0	0	1		24bit Left justified	18bit Right justified	H/L Output	64fs Output
0	1	0		24bit Left justified	20bit Right justified	H/L Output	64fs Output
0	1	1		24bit Left justified	24bit Right justified	H/L Output	64fs Output
1	0	0		24bit Left justified	24bit Left justified	H/L Output	64fs
				24bit	24bit	L/H	Output 64fs
1	0	1		128	I2S	Output	Output
1	1	0		24bit Left	24bit Left	H/L	64-128fs
				justified	justified	Intput	Input
1	1	1		24bit	24bit	H/L	64-128fs
Γable 2.	Master cl	lock frequ	uency sel	l2S ect	I2S	Intput	Input
OCK S 1	OCK S 0		MCK O 1	MCK O 2			
(pin 26)	(pin 25)		(pin 24)	(pin 23)		X'tal	fs(kHz)
0	0		256fs	256fs		256fs	32.0 44.1 48.0 96.0
0	1		256fs	128fs		256fs	32.0 44.1 48.0 96.0
1	0		512fs	256fs		512fs	32.0 44.1 48.0
1	1		-	-	Test Mode	-	-

Table 3.	Clock op	eration mo	ode sele	ct			
CM 1 (pin 27)	CM 0 (pin 28)	UNLOCK	PLL	X'tal	Clock source	FS96 (pin 17)	SDT O (pin 20)
0	0	Х	ON	OFF	PLL	RFS96	RX
0	1	х	OFF	ON	X'tal	XFS96	D AUX
1	0	0	ON	ON	PLL	RFS96	RX
1	0	1	ON	ON	X'tal	XFS96	D AUX
1	1	Х	ON	ON	X'tal	XFS96	D AUX

051-6071-08 BA5825FP-E2

Terminal Description pin 1: FILT : O : PLL filter output. pin 2: A VSS : - : Negative voltage supply for analog section. pin 3: PDN : IN: Power down & reset signal input. 4: S MUTE : IN: The soft muting command input. pin pin 5: DEM 0 : IN: De-emphasis Frequency Selection. pin 6: DEM 1 : IN: De-emphasis Frequency Selection. pin 7: I LR CK : IN: Left/Right clock input for the input signal. 8: I BI CK : IN: Bit clock input for the input signal. pin

pin 9: SDT I : IN: The serial data input. pin 10: I DIF 0 : IN: Input data format select pin 11: I DIF 1 : IN: Input data format select. pin 12: I DIF 2 : IN: Input data format select. pin 13: C MODE 0 : IN: The clock mode select. pin 14: C MODE 1 : IN: The clock mode select. pin 15: C MODE 2 : IN: The clock mode select. pin 16: O DIF 0 : IN: Output data format select. pin 17: O DIF 1 : IN: Output data format select. pin 18: SDT O : O: The audio serial data output.

pin 19: O BI CK :I/O: Bit clock input/output for the output signal.

I/O: Left/Right clock input/output for the output signal.

pin 21: MASTER CLK : IN: Master clock input.

pin 22: T VDD : - : Positive voltage supply for output-buffer.

pin 23: D VSS : - : Digital ground.

pin 24: VDD : - : Positive voltage supply.

Table 1. Master/Slave control

Cmode 2 (pin 15)	Cmode 1 (pin 14)	Cmode 0 (pin 13)	Master CLK (pin 21)	Master/Slave (Output port)	
L	L	L	256fso(fso to 96kHz)	Master	
L	L	Н	384fso(fso to 96kHz)	Master	_
L	Н	L	512fso(fso to 48kHz)	Master	_
L	Н	Н	768fso(fso to 48kHz)	Master	
Н	L	L	Connect to DVSS	Slave	
— н	н	н	Connect to DVSS	Master(hypass mode)	

Table 2. Input Audio data Formats

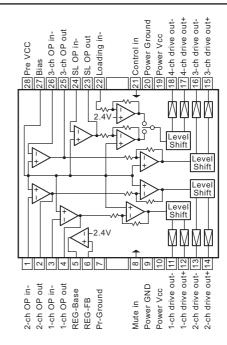
I DIF 2 (pin 12)	I DIF 1 (pin 11)	I DIF 0 (pin 10)	SDT I format (pin 9)	I BI CK (slave) (pin 8)	
L	L	L	16bit LSB Justified	32 or less	
L	L	Н	20bit LSB Justified	40 or less	
L	Н	L	20bit MSB Justified	40 or less	
L	Н	Н	20/16bit I2C compat.	32/40fs or less	
Н	L	L	24bit LSB Justified	48 or less	

Table 3. Output Audio data Formats

	(pin 17) (pin 16)		SDT O format (pin 18)	O BI CK (Slave)			
			16bit LSB Justified	64fs	64fs		
L H		Н	20bit LSB Justified	64fs	64fs		
H L		L	20/16bit MSB Justif.	32/40fs or less	64fs		
н н		Н	20/16bit I2C compat.	32/40fs or less	64fs		

Table 4. De-emphasis filter control

DEM 1 (pin 6)		DEM 0 (pin 5)	De-emphasis filter		
	L	L	44.1kHz		
L H		Н	off		
		L	48.0kHz		
	L	Н	32.0kHz		

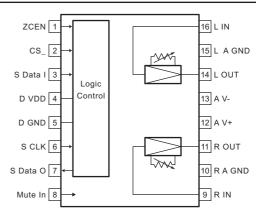


Quad Motor Drivers

Truth Table

MUTE (pin 9)	CNT (pin 21)	CH1,2,3 output	CH4 output
Н	Н	MUTE OFF	LD ON
Н	L	MUTE OFF	SL ON
L	Н	MUTE ON	LD ON
L	L	MUTE ON	MUTE ON

051-5036-90 PGA2310UA Stereo Volume Controller



#### Terminal Description

pin 1: ZCEN : IN: Zero Cross Enable signal input. pin 2: CS IN : IN: The chip select command input. 3: S DATA IN : IN: The serial data input. pin : - : Positive voltage supply for digital section. 4: D VDD pin : - : Digital ground. pin 5: D GND 6: S CLK : IN: The serial clock input. pin 7: S DATA OUT : O: The serial data output. pin 8: MUTE IN : IN: Mute command input. pin 9: R A IN : IN: Right channel audio signal input. pin 10: R A GND : - : Right channel audio signal ground. pin 11: R A OUT

pin 11: R A OUT : O : Right channel audio signal output.
pin 12: A V+ : - : Positive voltage supply for analog section.
pin 13: A V- : - : Negative voltage supply for analog section.

pin 14: L A OUT :O: Left channel audio signal output.
pin 15: L A GND :-: Left channel audio signal ground.
pin 16: L A IN :IN: Left channel audio signal input.

051-9126-00 BS62LV1024STI-70 128 x 8 bit SRAM Terminal Description pin 1: A 11 : IN: Address signal input. pin 2: A 9 : IN: Address signal input. pin 3: A 8 : IN: Address signal input. pin 4: A 13 : IN: Address signal input. pin 5: WE\_ : IN: Write enable signal input. pin 6: CE 2 : IN: The chip enable signal input. pin 7: A 15 : IN: Address signal input. pin 8: VCC : - : Positive voltage supply. pin 9: NU : - : Not in use. pin 10: A 16 : IN: Address signal input. pin 11: A 14 : IN: Address signal input. pin 12: A 12 : IN: Address signal input. pin 13: A 7 : IN: Address signal input. pin 14: A 6 : IN: Address signal input. pin 15: A 5 : IN: Address signal input. pin 16: A 4 : IN: Address signal input. pin 17: A 3 : IN: Address signal input. pin 18: A 2 : IN: Address signal input. pin 19: A 1 : IN: Address signal input. pin 20: A 0 : IN: Address signal input. pin 21: D 0 :I/O: Data input/output. pin 22: D 1 :I/O: Data input/output. pin 23: D 2 :I/O: Data input/output. pin 24: GND : - : Ground. pin 25: D 3 :I/O: Data input/output. pin 26: D 4 :I/O: Data input/output. pin 27: D 5 :I/O: Data input/output.

#### Truth Table

pin 28: D 6

pin 29: D 7

pin 30: CE 1\_

pin 31: A 10

pin 32: OE\_

WE_ (pin 5)	CE 1_ (pin 30)	CE 2 (pin 6)	OE_ (pin 32)	I/O Operation
х	Н	х	Х	High Z
х	х	L	Х	High Z
Н	L	Н	Н	High Z
Н	L	Н	L	data out
L	L	Н	Х	data in

:I/O: Data input/output.

:I/O: Data input/output.

: IN: Address signal input.

: IN: The chip enable signal input.

: IN: Output enable signal input.

051-6709-90 PCM1792DBR 24bit 192kHz DA Converter

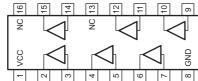
Terminal Description	
pin 1: ZERO L	: O: ZERO flag output for Left channel.
pin 2: ZERO R	: O: ZERO flag output for Right channel.
pin 3: M SEL	: IN: I2C/SPI_ select.
pin 4: LR CK IN	: IN: Left/Right clock input.
pin 5: DATA IN	: IN: Serial data input.
pin 6: B CK IN	: IN: Bit clock input.
pin 7: SCK	: IN: The system clock pulse input.
pin 8: D GND	: - : Digital ground.
pin 9: D VDD	: - : Positive voltage supply for the digital section.
pin 10: MS	: IN: Chip select for mode control.
pin 11: MDI	: IN: Mode control data input.
pin 12: MC	: IN: Mode control clock input.
pin 13: MD	: O : Mode control read back data output.
pin 14: RSTI	: IN: Reset signal input.
pin 15: A VCC	: - : Positive voltage supply for the internal analog section.
pin 16: A GND	: - : Analog ground.
pin 17: I out R+	: O : Right channel analog signal current output +.
pin 18: I out R-	: O : Right channel analog signal current output
pin 19: A GND	: - : Analog ground.
pin 20: Iref	: - : Output current bias.
pin 21: V com R	: - : Right channel internal bias.
pin 22: V com L	: - : Left channel internal bias.
pin 23: A VCC	: - : Positive voltage supply for the internal analog section.
pin 24: A GND	: - : Analog ground.
pin 25: I out L+	: O : Left channel analog signal current output +
pin 26: I out L-	: O : Left channel analog signal current output .

: - : Analog ground.

alog section.

: - : Positive voltage supply for the internal an-

051-7285-08 CD74HC4050PWR Hex Buffer



051-3232-90 uPD29M33T 3.3V Voltage Regulator

051-3012-90 OP275GS

pin 27: A GND

pin 28: A VCC

051-3042-90

OPA2134UA

Dual Operational Amplifier

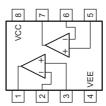
**Dual Operational Amplifier** 

Terminal Description

pin 1: Input(power source)

pin 2: Ground

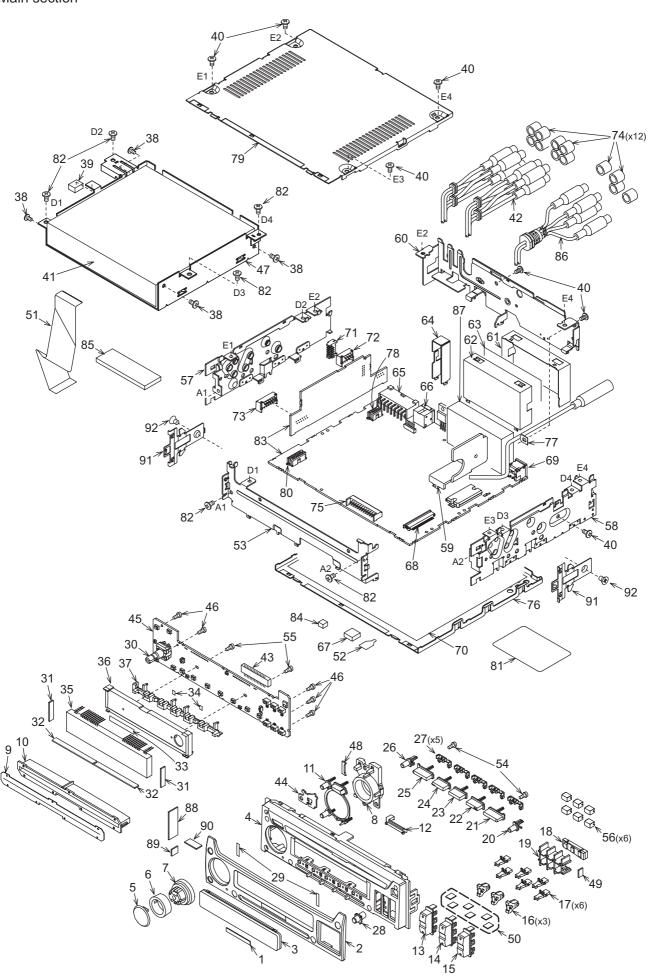
pin 3: Output





# **EXPLODED VIEW / PARTS LIST**

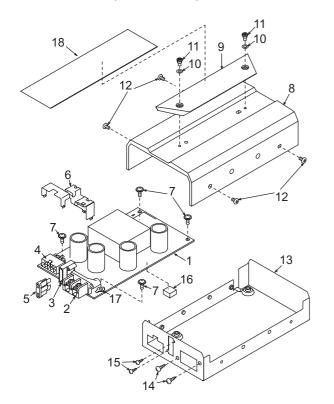
Main section



NO.	PART NO.	DESCRIPTION	Q'TY
1	378-0546-00 378-0547-00	BADGE(PE2628BA:DRZ9255) BADGE(PE2628KA:HX-D2)	1
2	371-5778-01 371-5778-00	FACE PANEL(PE2628BA) FACE PANEL(PE2628KA)	1
3	373-1036-00	DIAL COVER	1
4	370-6112-01	ESCUTCHEON	1
5	380-5591-00	KNOB CAP	1
6	345-5402-00	RUBBER RING	1
7	380-5592-00	INNER KNOB	1
8	335-7212-00	ILLUMI PLATE (L)	1
9	346-0163-00	LEATHER SHEET	1
10	371-5779-00	TRIM PLATE	1
11	382-6997-00	BUTTON (L)	1
12	335-7209-00	PACK ILLUMI	1
13	382-6998-00	BUTTON (1-4)	1
14	382-6999-00	BUTTON (2-5)	1
15	382-7000-00	BUTTON (3-6)	1
16	335-7219-00	BUTTON ILLUMI	3
17	335-7210-00	IND-ILLUMI	6
18	335-7211-00	ILLUMI PLATE	1
19	335-7213-00	BUTTON HOLDER	1
20	382-6995-00	BUTTON (P/A)	1
21	382-6994-00	BUTTON (BAND)	1
22	382-6993-00	BUTTON (>>)	1
23	382-6992-00	BUTTON (ENT)	1
24	382-6991-00	BUTTON (<<)	1
25	382-6990-00	BUTTON (FUNC)	1
26	382-6996-00	BUTTON (D)	1
27	335-7215-00	BUTTON HOLDER	5
28	335-7214-00	IR-FILTER	1
29	347-7383-00	DOUBLE FACE	2
30	016-0025-00	VR W/SHAFT	1
31	347-7384-00	SHADE FILM(R/L)	2
32	347-7385-00	SHADE FILM(VFD)	2
33	347-7386-00	DOUBLE FACE(VFD)	1
34	347-7387-00	DOUBLE FACE(ILLUMI)	2
35	379-4053-28	VFD	1
36	335-7216-00	VFD HOLDER	1
37	335-7218-00	ILLUMI PLATE (C)	1
38	714-2603-81	MACHINE SCREW (M2.6x3)	4
39	345-5798-00	CUSHION	1
40	716-0306-10	SCREW (M3x6)	7
41	929-0291-80	CD MECH MODULE	1
42	855-5505-00	RCA PIN CORD (8CH)	1
43	074-1105-22	OUTLET SOCKET	1
43	347-7408-00	SHADE FILM	1
			1
45		H PWB	
46	716-0872-01	PAD SCREW (M1.7x5)	5
47	331-3775-00	MECH BRACKET	1
48	347-7380-00	SHADE FILM (L)	1
49	347-7382-00	SHADE FILM (R)	1

NO.	PART NO.	DESCRIPTION	Q'TY
50	347-7379-00	SHADE FILM (PRESET)	6
51	816-4004-00	FLAT WIRE	1
52	347-7376-00	E-SHEET	1
53	309-0798-00	FRONT PLATE	1
54	714-2004-81	MACHINE SCREW (M2x4)	2
55	716-0872-11	SCREW (M1.7x6)	2
56	345-5140-00	RUBBER SPACER	6
57	305-0248-02	SIDE COVER (L)	1
58	305-0249-02	SIDE COVER (R)	1
59	313-1895-00	HEAT SINK	1
60	307-0702-00	REAR COVER	1
61	331-2946-00	SHIELD COVER (R)	1
62	331-2945-00	SHIELD COVER (F)	1
63	347-7377-00	INSULATOR	1
64	313-1781-00	HEAT SINK	1
65	074-1023-16	OUTLET SOCKET (POWER)	1
66	074-1194-00	OUTLET SOCKET (Ce NET)	1
67	345-5796-00	CUSHION	1
68	074-1138-76	OUTLET SOCKET	1
69	075-0385-10	JACK (OPTICAL-IN)	1
70	347-7375-00	INSULATOR	1
71	076-6002-12	PLUG	1
72	076-0515-08	PLUG (8P)	1
73	076-0515-12	PLUG (12P)	1
74	345-3799-01	RUBBER PART	12
75	076-0515-22	PLUG	1
76	304-0470-01	LOWER COVER	1
77	092-2214-00	ANT-RECEPT	1
78	074-1106-08	OUTLET SOCKET	1
79	303-0458-08	UPPER COVER	1
80	074-1106-12	OUTLET SOCKET	1
81	286-6456-00 286-6457-00	SETPLATE(PE2629BA) SETPLATE(PE2629KA)	1 1
82	714-3006-81	MACHINE SCREW (M3x6)	6
83	覧覧 MAIN F	WB	1
84	345-5795-00	CUSHION	1
85	345-5797-00	HEAT RUBBER	1
86	855-5500-00	RCA PIN CORD (4CH)	1
87	880-2090B	TUNER PACK	1
88	347-7415-00	FILM	1
89	347-7416-00	FILM	1
90	347-7417-00	FILM	1
91	750-2796-02	SPRING	2
92	714-5008-41	MACHINE SCREW	2

# DC-DC converter(EE-1236B-A) section

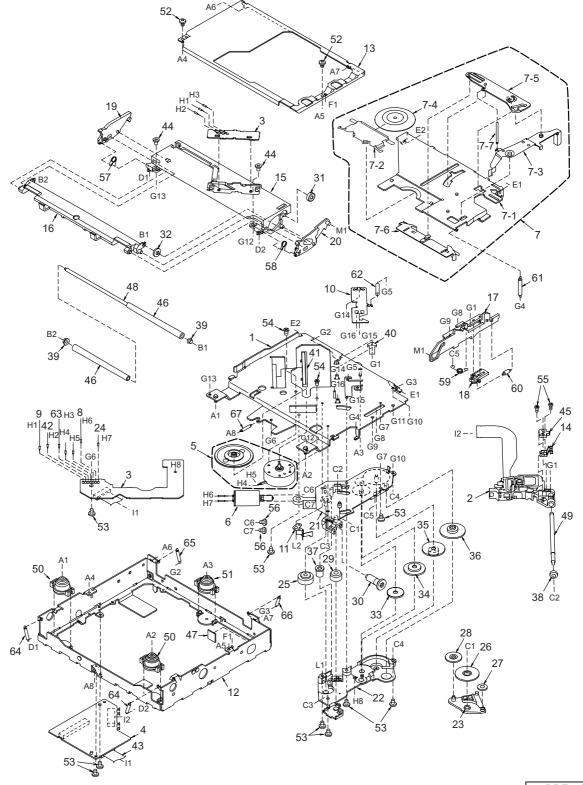


NO.	PART NO.	DESCRIPTION	Q'TY
1		DC/DC PWB	1
2	073-0722-01	TERMINAL (BATT/GND)	1
3	077-0091-00	FUSE-RECEPT	1
4	074-0884-02	OUTLET SOCKET (10P)	1
5	060-0057-54	AUTO FUSE(5A)	1
6	331-3776-00	CONECTOR HOLDER	1
7	716-0821-02	IT SCREW	4
8	303-0487-00	UPPER COVER	1
9	383-0715-01	DECORATE PANEL	1
10	345-5443-00	O-RING	2
11	716-3521-00	LOCK SCREW (M3X4)	2
12	714-3006-89	MACHINE SCREW (M3X6)	4
13	311-1886-01	LOWER COVER	1
14	702-3008-89	TAP SCREW	2
15	702-2006-19	TAP SCREW	2
16	345-5444-00	SPACER	1
17	073-0731-01	TERMINAL	1
18	347-7378-00	PROTECT SHEET	1

# CD mechanism(929-0291-80) section

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	966-0595-25	DRIVE PLATE ASSY	1	20	621-0603-25	LOCK ARM R	1
2	969-0065-31	PICK UP UNIT	1	21	621-0724-21	GEAR BASE	1
3		LED PWB	1	22	621-0605-22	GEAR COVER	1
4		CD PWB	1	23	621-0723-20	IDLE CASE	1
5	SMA-182-100	MOTOR ASSY(SPINDLE)	1	24	816-2590-00	VINYL COAT WIRE(GRN)	1
6	SMA-183-100	MOTOR ASSY(SLED)	1	25	621-0608-21	SECOND GEAR	1
7	HBS-524-100	CLAMPER SUB ASSY	1	26	621-0609-20	BASE GEAR	1
7-1	620-1022-25	CLAMPER LINK	1	27	621-0610-20	IDLE GEAR A	1
7-2	620-1023-23	CLAMPER PLATE	1	28	621-0611-20	IDLE GEAR B	1
7-3	620-1024-23	SENSOR ARM	1	29	621-0612-21	ROLLER GEAR A	1
7-4	621-0708-20	CLAMPER RING	1	30	621-0719-20	ROLLER GEAR B	1
7-5	621-0626-21	STOPPER LINK	1	31	621-0720-20	ROLLER GEAR C	1
7-6	621-0627-21	DISC STOPPER	1	32	621-0721-20	ROLLER GEAR D	1
7-7	750-3471-20	SENSOR SPRING	1	33	621-0616-20	POWER GEAR A	1
8	803-4906-60	VINYL COAT WIRE(ORG)	1	34	621-0617-20	POWER GEAR B	1
9	816-2591-00	LEAD WIRE(YEL)	1	35	621-0618-20	POWER GEAR C	1
10	620-1025-22	ID-LOCK PLATE	1	36	621-0619-20	POWER GEAR D	1
11	620-1026-21	SPRING PLATE	1	37	621-0620-20	THREAD GEAR A	1
12	620-1027-27	LOWER CHASSIS	1	38	621-0621-20	THREAD GEAR B	1
13	620-1028-23	UPPER CHASSIS	1	39	621-0622-21	ROLLER SLEEVE	2
14	966-0638-20	SH-RACK ASSY	1	40	621-0623-23	LS-HOLDER	1
15	621-0598-27	UPPER GUIDE	1	41	621-0624-22	GUIDE RAIL	1
16	621-0599-26	ROLLER GUIDE	1	42	816-2593-00	LEAD WIRE(PUR)	1
17	621-0600-26	SHIFT LEVER	1	43	816-2542-01	FLAT WIRE(10P)	1
18	621-0601-21	RACK	1	44	716-3473-00	IT SCREW(M2 x 3)	2
19	621-0602-22	LOCK ARM L	1	45	621-0709-20	SH-BASE	1

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
46	621-0629-20	LOADING ROLLER	2	57	750-3465-21	ROLLER SPRING L	1
47	345-8704-20	CUSHION RUBBER	1	58	750-3466-20	ROLLER SPRING R	1
48	622-1571-21	ROLLER SHAFT	1	59	750-3467-21	SHIFT SPRING	1
49	624-0018-01	LEAD SCREW	1	60	750-3468-20	RACK SPRING	1
50	629-0081-20	DAMPER F	2	61	750-3469-20	CLAMPER SPRING	1
51	629-0082-20	DAMPER R	1	62	750-3470-20	ID-LOCK SPRING	1
52	714-2003-81	MACHINE SCREW(M2 x 3)	2	63	816-2592-00	LEAD WIRE(BLU)	1
53	716-1507-00	SCREW(M2 x 3)	9	64	750-3472-21	DR-SPRING F	2
54	716-1733-00	SCREW(M1.7 x 2.3)	2	65	750-3473-20	DR-SPRING RA	1
55	716-3469-00	SCREW( 3 x 4)	2	66	750-3474-20	DR-SPRING RB	1
56	716-3446-00	SCREW(M1.4 x 2.5)	2	67	750-3475-21	DR-SPRING C	1



# **ELECTRICAL PARTS LIST**

# Main PWB(B1) section

	PART No.	DESCRIPTION		PART No.	DESCRIPTION		PART No.	DESCRIPTION
BL1	880-2090B	TUNER PACK	C310	042-0654-52		C423	166-2211-50	
C1	168-2232-55		C311	166-3301-50		C424	166-1211-50	
C2	163-2263-35	l I	C312	166-3301-50		C425	166-2211-50	
C4	163-1053-65	l I	C313	166-3301-50		C426	166-2211-50	
C5	168-3332-78		C314	166-3301-50		C427	166-2211-50	
C6	168-3332-78	0.033uF K	C315	166-3301-50		C428	166-1211-50	
C7	187-4763-35	16V47uF	C316	166-3301-50	33pF CH	C429	166-2211-50	
C8	168-2232-55	0.022uF K	C317	166-3301-50	33pF CH	C430	166-2211-50	220pF CH
C9	168-2232-55	0.022uF K	C318	166-3301-50	33pF CH	C431	166-2211-50	220pF CH
C10	168-6822-55	6800pF K	C319	163-2253-65	50V2.2uF	C432	166-1211-50	12pF CH
C11	042-1631-50	10V100uF	C320	163-2253-65	50V2.2uF	C433	166-2211-50	220pF CH
C12	042-1631-50	10V100uF	C321	163-2253-65	50V2.2uF	C434	166-2211-50	220pF CH
C13	168-1032-55	0.01uF K	C322	163-2253-65	50V2.2uF	C435	166-2211-50	220pF CH
C14	168-1532-55	0.015uF K	C323	187-1073-35	16V 100uF	C436	166-1211-50	12pF CH
C16	168-1032-55	0.01uF K	C324	168-1042-78	16V 0.1uF	C437	168-1042-78	16V 0.1uF
C18	163-3353-65	50V3.3uF		042-0654-52	16V 10uF	C439	168-1022-55	1000pF K
C20	163-4763-15	l I	C326	042-0654-52	l I			(PE2628KA)
C21	166-1011-50	l I	C327	042-0654-52	l I	C440	042-0654-50	
C22	166-1011-50	· ·	C328	042-0654-52	l I		042-0654-50	
C23	166-1011-50	, · ,	C329	042-0654-52		C442	042-0654-50	
C24	166-3311-50		C330	042-0654-52		C443	042-0654-50	
C25	166-1801-50	· '		042-0654-52		C449	168-1032-55	
C26	166-1501-50	, · ,	C332	168-1042-78		C449	168-1032-55	
C26 C27	163-2253-65	, · ,		042-0654-52		C450	168-1032-55	
	163-2253-65		C333		l I			
C28				168-1042-78	l I	C452	168-1032-55	
C29	168-2232-55	l I	C335	168-1042-78		C453	168-1032-55	
C55	166-2201-50		C336	163-1053-65		C454	168-1032-55	
C66	166-2201-50		C337	163-1053-65		C455	168-1032-55	
C67	168-1032-55	l I	C338	163-1053-65	l I	C456	168-1032-55	
C68	168-1032-55	l I	C339	163-1053-65		C457	168-1032-55	
C200	187-1073-35	l I	C340	163-2263-35		C458	168-1032-55	
C201	187-1073-35	l I	C341	178-4742-78	l I	C459	168-1032-55	
	187-1063-35		C342	042-0423-97	16V10uF	C460	168-1032-55	0.01uF K
C204	042-9129-00	16V270uF	C343	042-0654-52	16V 10uF	C461	168-1032-55	
C205	187-4763-35	16V47uF	C344	042-0654-52	16V 10uF	C462	168-1032-55	
C206	042-1549-12	16V220uF	C345	042-0654-52	16V 10uF	C463	168-1032-55	0.01uF K
C207	187-1063-35	16V 10uF	C346	042-0654-52	16V 10uF	C464	168-1032-55	0.01uF K
C208	042-1549-12	16V220uF	C347	166-3301-50	33pF CH	C465	042-1505-89	10V10uF(OS)
C210	163-2263-35	16V22uF	C348	166-3301-50	33pF CH	C466	042-1505-89	10V10uF(OS)
C211	187-4763-35	16V47uF	C349	166-3301-50	33pF CH	C467	042-1505-89	10V10uF(OS)
	042-1631-50		C350	166-3301-50		C468	042-1505-89	10V10uF(OS)
C213	042-1631-50		C351	042-0654-52	'	C469	168-1032-55	
C214	163-1063-35			042-0654-52		C470	168-1032-55	
C215	168-1032-55		1	042-0654-52		C471	168-1032-55	
	042-1631-50			042-0654-52		C472	168-1032-55	
C217	163-2263-35		C355	168-1032-55		C473	168-1032-55	
C218	172-2231-15	l I	C356	168-1032-55	l I	C474	168-1032-55	
C218	168-1022-55		C357	168-1032-55	l I			10V10uF(OS)
C219	168-1042-78		C358	168-1032-55		C475		10V10uF(OS)
	187-1063-65					C476 C477		
C221 C222	168-1022-55		C359	168-1022-55 166-1011-50		C477		10V10uF(OS)
			C360					10V10uF(OS)
	043-0318-90	. · ·	C401	043-0264-51		C479	168-1032-55	
C224	166-1011-50		C402	043-0264-51		C480	168-1032-55	
C225	168-1032-55		C403	043-0264-51		C481	042-1547-00	
C226	168-1032-55		C404	043-0264-51		C482	042-1547-00	
C227	168-1022-55		C405	043-0264-51			042-1547-00	
C228	168-1022-55		C406	043-0264-51		C484	042-1547-00	
C229	168-1032-55		C407	043-0264-51		C485	042-1547-00	
C230	168-1022-55		C408	043-0264-51		C486	042-1547-00	
		(PE2628KA)		043-0264-51		C487	042-1563-68	
C231	168-1011-50	100pF CH	C410	043-0264-51	2200pF	C488	042-1563-68	16V22uF
		(PE2628KA)	C411	043-0264-51	2200pF	C489	168-1032-55	0.01uF K
C233	168-1022-55	1000pF K	C412	043-0264-51	2200pF	C491	042-1547-00	16V22uF
		(PE2628KA)	C413	173-5611-18		C492	042-1547-00	
C301	168-4732-78	l` '	C414	173-5611-18		C493	168-1032-55	
C302	168-4732-78		C415	173-5611-18		C600	168-1032-55	
	042-0654-52		C416	173-5611-18		C601	042-1576-01	
	042-0654-52	l I	C417	173-5611-18		C603	168-1032-55	
							042-1577-00	
C304		16\/ 1()⊔ <b>⊢</b>	I CZIIX	11/3-5611-12				
C304 C305	042-0654-52	l I	C418	173-5611-18				
C304 C305 C306	042-0654-52 042-0654-52	16V 10uF	C419	166-5611-50	560pF CH	C609	168-4732-78	0.047uF K
C304 C305 C306	042-0654-52	16V 10uF 16V 10uF	1		560pF CH 560pF CH			0.047uF K 16V10uF

CREATION	DEE No.	DADT No	DECODIDATION	DEEN	DADT No	DECCRIPTION	DEE N.	DADT No	DECODIDATION
Cargo   Carg	REF No.	PART No.	DESCRIPTION		PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
0.62-0423-30   0.04-0423-30   0.04-065	1			C983	166-2211-50				
188-1042-78   189-0 1.0				0004	400 4000 55	` /			
168-096-50   pFD   Ch	1					I I			
168-808-50   869-10   C   C   C   C   C   C   C   C   C									
188-1042-78   16V O.1-UF   C.9006   188-1032-56   D.01-UF K   C.9006   188-1032-56   D.01-UF K   C.9006   C.9									
Composition   168-1042-78   16V O. 1.uF   Composition   168-1032-56   Columb K   Composition   Com									
Carrier   188-1042-78   16V D. 1.uF   CC7907   103-0342-58   16L3216A601   163-042-78   16V D. 1.uF   CC7902   103-0342-58   16L3216A601   162-0342-58   16V D. 1.uF   CC7902   103-0342-58   16L3216A601   162-0342-59   16V D. 1.uF   CC7902   103-0342-58   16L3216A601   162-0342-59   16V D. 1.uF   CC7902   103-0342-58   16L3216A601   162-0342-59   16V D. 1.uF   CC7903   103-0342-59   16V D. 1.uF   CC7903   103-0									
Company   Comp									
Cargo   188-1042-78   16V O. 1.uF   Cargo									
1881-1042-76   18V 0-1 uF   CCT902   D10-3042-56   BLA32[16AB01   CGT902   D10-3042-56   BLA32[16AB01   CGT903   D10-3042-56   D10-3042-56   BLA32[16AB01   CGT903   D10-3042-56   BLA32[16AB01   CGT903   D10-3042-56   BLA32[16AB01   CGT903   D10-3042-56   D10-3042-56				1001901	010-3042-34				
188-1022-55   1000pF K   1000pF K   1015   1015-3042-56   181-3215-80   1015-304-56   181-3215-80   1015-304-56   181-3215-80   1015-304-56   181-3215-80   1015-304-56   181-3215-80   1015-304-56   181-3215-80   1015-	1			CCTOO2	010 2042 54	I			
C915   042-0423-94   DV 4-7u   FU				001902	010-3042-34				
C1916   688-1042-78   EV 0.1 uF   C1904   C1904   C1904-26   EV 0.1 uF   C1904   C1904-26   EV 0.1 uF   C1904   C1904-26   EV 0.1 uF   EV 0.1 uF			'	CCTOO3	010 2042 54	l I			
C917   683-1083-35   EVY1-0uF   C0194   O1-09-022-56   BLA3216A601   C0195   O1-09-023-01   O1-09-023-01   O1-09-022-56   BLA3216A601   C020   O1-09-023-97   EVY1-0uF   C0195   O1-09-022-56   BLA3216A601   C020   C02-042-397   EVY1-0uF   C0195   O1-09-022-56   BLA3216A601   C020   C02-042-397   EVY1-0uF   C0195   O1-09-022-56   BLA3216A601   C020   C019-0342-56   BLA3216A601   C020   C019-0342-50   MA111   C020   C019-0342-56   MA111   C020   C019-0342-56   MA111   C020   C019-0342-56   MA111   C020   C019-0342-56   MA111   C020   C019-0342-50   MA1111   C020   C019-0342-50				001903	010-3042-34	I I			
C1916   G1042-76   EV 0 - U				CCT904	010-3042-54	I			
C919   Q42-Q423-97   following   CC7905   O10-30425-8   BLA3216A601   CG21   O51-50365-90   PGA2310UA   CG20   Q42-Q423-97   following   CG790   O10-30425-8   BLA3216A601   CG01   O52-3039-00   PGA2310UA   CG202   C61-042-78   following   CG790   O10-30425-8   BLA3216A601   CG02   CG204   C61-042-78   following   CG790   O10-0525-86   MAS18-0-L   CG02   CG790   O10-0525-86	1			001304	010-3042-34		1		
C2920   Q42-942-967   feb100F   CC1906   D13-042-56   BLA3216A001   CS01   D13-042-56   BLA3216A001   CS02   D13-042-78   feb 0.1uF   CD201   D13-042-56   BLA3216A001   CS02   D13-042-78   feb 0.1uF   D202   D10-052-96   MARI10   CS02   D13-042-78   feb 0.1uF   D202   D10-052-96   MARI11   CS02   D13-042-78   feb 0.1uF   D203   D10-052-96   MARI11   CS02   D13-042-78   feb 0.1uF   D205   D10-052-96   MARI11   CS02   D13-042-78   feb 0.1uF   D205   D10-052-96   MARI11   CS02   D13-042-30   D14-042-30   D14-042-30				CCTOOS	010-3042-54	l I			
C221   C222   C224				001303	010-3042-34	I I			
C2923   168-104-278   16V 0.1 UF   C279				CCTOOS	010-3042-54				
C2924   042-0423-20   10V10UF   C2050   618-1042-78   16V 0.1 uF   C2050   618-1042-78   16V 0.1 uF   C2050   618-1042-78   16V 0.1 uF   C2050   C20				001300	010-3042-34		10001	051-5457-00	
C925   168-1042-78   169 \ 0.1 \text{ UP}   C926   168-1042-78   169 \ 0.1 \text{ UF}   C926   168-1042-78				CCT907	010-3042-54		10602	051-6600-58	
C925   168-1042-78   16V 0.1 uF   D201   D101-0529-68   MA8180-L   D202   D101-0518-90   MA111   D203   D101-0518-90   MA111   D203   D101-0518-90   MA111   D203   D101-0518-90   MA111   D205   D101-0518-90   MA111   D206   D101-0518-90   MA111   D207   D101-0518-90   MA111   D208   D101-0518-90   MA111   D208   D101-0518-90   MA111   D208   D101-0529-32   MA8030-L   D209   D101-0518-90   MA111   D208   D101-0529-32   MA8030-L   D209   D101-0529-32   MA8030-L   D20				1001907	010-3042-34				
C926   168-1042-78   169 \ 0.1 \ \text{UF}   C927   168-1042-78   169 \ 0.1 \ \text{UF}   C928   168-6014-50   100pF \ CH   C928   168-602-78   169 \ 0.1 \ \text{UF}   C928   168-682-256   6800pF \ K   C929   168-682-256   6800pF \ K   C930   0.1 \ \text{UF}   C920   0				D201	001-0529-68		10001	30. 7221-30	
C927   168-1042-78   16V 0.1 uF   D203   001-0516-90   MA111   10905   051-2321-58   SN74AHC1004   HDCKR   D206   010-0516-90   MA111   10905   051-2321-58   SN74AHC1004   HDCKR   D207   010-0516-90   MA111   10905   051-2321-58   SN74AHC1004   HDCKR   D208   010-0516-90   MA111   10905   051-2325-80   SN74AHC2653   HDCKR   D209   010-0466-91   S56886   10907   051-2325-80   CD74HC2650PWR   C935   042-0423-20   10V10uF   D210   010-0466-91   S56886   10907   051-2325-80   CD74HC2650PWR   C935   042-0423-20   10V10uF   D210   010-0529-14   MA8030-L   10910   051-679-90   PCM1792DBR   C935   168-1042-78   16V 0.1 uF   D302   010-0516-90   MA111   10912   051-6800   MA111   10913   051-6900   MA112   10910   051-679-90   PCM1792DBR   C935   168-1042-78   16V 0.1 uF   D351   010-0516-90   MA111   10913   051-6900   MA112   10913   051-6708-90   MA112   10914   051-6800   MA111   10914   10							IC902	051-7243-49	
1986   1011-50   1000F CH   D205						I I	10302	001-1240-40	
1828 6822-55   6800pF K   D206   001-0516-90   MA111   D208   061-7221-58   SNT4AHC1G04   HDCKR   C931   042-0423-20   10V10uF   D208   001-0516-90   MA111   D208   01-0516-90   MA111   D208   D210   D21							IC903	051-6373-19	-
C930   168-1042-76   16V 0.1uF   D207   001-9516-90   MA111   D208   001-0516-90   MA111   D208   001-0466-91   S56886   D209   001-0466-91   S56886   D210   D209   001-0466-91   S56886   D210   D210   001-0466-91   S56886   D210						l I			
042-0423-20   10V10UF   D208   001-0516-90   MA111   IC906   051-7286-08   SN74AHC2C53   HDCTR   C932   042-0423-20   10V10UF   D219   001-0466-91   SS68BG   IC907   051-7285-08   CD74HC4050PWR   C9334   188-1042-78   16V 0.1 uF   D215   001-0529-32   MA8056-M   IC909   D216-0787-0787-08   C9334   IS8-1042-78   16V 0.1 uF   D301   001-0516-90   MA111   IC911   051-6709-90   PCM1732DBR   C9337   168-1022-55   1000pF K   D302   001-0516-90   MA111   IC912   O51-6620-08   TC9246F   C9339   IS8-1042-78   16V 0.1 uF   D301   001-0529-34   MA8082-M   IC919   O51-6709-90   PCM1732DBR   C9339   IS8-1042-78   16V 0.1 uF   D351   O1-0529-34   MA8082-M   IC919   O51-6709-90   PCM1732DBR   C9349   IS8-1042-78   16V 0.1 uF   D351   O1-0529-34   MA8082-M   IC915   O51-6708-90   AKT7200						l I	10000	001 7221 00	
C932   042-0423-20   10V10UF   D209   001-0466-91   SS68BG   D230   D230   D24046-91   SS68BG   D230   D240423-20   10V10UF   D210   D01-0466-91   SS68BG   D230   D240423-20   10V10UF   D219   D210   D01-0529-32   MA8056-M   D290   D51-7285-06   D274HC4050PWR   D219   D210   D210							IC906	051-7269-08	
1933   188-1042-78   16V 0.1 uF   D215   D01-0466-91   S5688G   IC990   D61-7286-08   CD74HC4050PWR   D215   D01-0529-32   MA8056-M   IC990   D61-6709-90   PCM1792DBR   D215   D01-0518-90   MA111   IC912   D51-6709-90   PCM1792DBR   D317   D01-0518-90   MA111   IC913   D51-6709-90   PCM1792DBR   D319   D01-0518-90   MA111   IC914   D51-6709-90   PCM1792DBR   D319   D01-0529-44   MA8030-L   IC915   D51-6709-90   AK7720-D   AK77							10000	001 7200 00	
168-1042-78   16V 0.1uF   D215   001-0529-32   MA8056-M   C990   051-6709-90   PCM1792DBR   C936   168-1032-55   0.01uF K   D219   0.01-0529-14   MA8030-L   C991   051-6709-90   PCM1792DBR   C936   168-1032-55   0.01uF K   D302   001-0516-90   MA111   C912   051-6709-90   PCM1792DBR   C937   168-1042-78   16V 0.1uF   D303   001-0516-90   MA111   C912   051-6709-90   PCM1792DBR   C939   168-1042-78   16V 0.1uF   D303   001-0516-90   MA111   C912   051-6709-90   PCM1792DBR   C939   168-1042-78   16V 0.1uF   D303   001-0516-90   MA111   C916   051-6709-90   PCM1792DBR   C940   C940-29-20   10V10uF   D351   001-0516-90   MA111   C916   051-6709-90   PCM1792DBR   C940   C940-29-20   10V10uF   D351   001-0516-90   MA111   C916   051-6709-90   PCM1792DBR   C940   C940-29-20   10V10uF   D352   001-0516-90   MA111   C916   051-6709-90   PCM1792DBR   C940   C940-29-20   10V10uF   D352   001-0516-90   MA111   C916   051-6709-90   PCM1792DBR   C940   C940-29-20   10V10uF   D352   C940-29-20   10V10uF   D352   C940-29-20   10V10uF   D352   C940-29-20   10V10uF   D352   C940-29-20   10V10uF   D452   C940-29-20   10V10uF   D454   C940-29-20   10V10uF   C940-29-20   10V1						I I	IC907	051-7285-08	-
C935   042-0423-20   10V10uF   D219   D01-0529-14   MA8030-L   D301   D01-505-89-0   CM1792DBR   C937   168-1032-55   1000pF K   D302   D01-0516-90   MA111   D312   C916-802-08   TC9246F   C938   178-4742-78   0.47uF   D303   D01-0516-90   MA111   D312   C916-802-08   TC9246F   C938   T78-4742-78   0.47uF   D351   D01-0529-34   MA8082-M   D303   D01-0516-90   MA111   D312   C916-802-08   C942-320   D01-0516-90   MA111   D351   D01-0516-90   MA111   D313   D01-0516-90   MA111   D313   D01-0516-90   MA111   D313   D01-0516-90   MA111   D320   D01-0516-90   MA111   D						l I			
1936   168-1032-55   0.01uF K   D302   0.01-0.516-90   MA111   D312   051-6709-90   PCM1792DBR   D302   0.01-0.516-90   MA111   D303   0.01-0.516-90   MA111   D303   0.01-0.516-90   D313   0.01-0.516-90   D314   D315						l I			
188-1022-55   1000pF K   D302						l I			
C939						I I			
C939   168-1042-78   16V 0.1 uF   D351   001-0529-44   MA8082-M   C941   042-0423-20   10V10 uF   D350   001-0516-90   MA111   C941   C942   C941   042-0423-20   10V10 uF   D351   001-0516-90   MA111   C941   C942   C942   C944   C944   C942   C944   C942   C944   C944   C942   C944   C						I I			
C940   168-1022-55   1000pF K   D350   O01-0516-90   MA111   D352   O01-0516-90   MA111   D353   O01-0516-90   MA111   D353   O01-0516-90   MA111   D353   O01-0516-90   MA111   D353   O01-0516-90   MA111   D300   O74-1023-16   16P   O74-1106-08   BP   O74-1106-08   D74-1106-08   D	1					l I			
C941   042-0423-20   10V10uF   D351   001-0516-90   MA111   J200   074-1103-16   16P   C944   168-1042-78   16V 0.1uF   D353   001-0516-90   MA111   J200   074-1106-08   RP   C944   168-1032-55   0.01uF K   D450   001-0529-38   MA8068-M   J402   074-1106-12   12P   C946   168-1042-78   16V 0.1uF   D451   001-0516-90   MA111   J800   074-1108-01   3P CE-NET   J802   074-1138-76   26P   C947   168-1042-78   16V 0.1uF   D452   001-0529-38   MA8068-M   J802   074-1138-76   26P   J901   O74-106-01   J901   O74-106-12   12P   J901   O74-106-12   12P   J901   O74-106-12   12P   J901   O74-106-12   J901   O74-1036-14   J901   O7						I I			
C942   168-1042-78   16V 0.1 uF   D352   001-0516-90   MA111   J200   074-1023-16   16P   C944   168-1032-55   0.01 uF K   D450   001-0516-90   MA111   J401   074-1106-08   BP   C945   042-0423-20   10V10 uF   D451   001-0516-90   MA111   J600   074-1194-00   13P CE-NET   J604   168-1042-78   16V 0.1 uF   D452   001-0529-38   MA8068-M   J602   074-1138-76   26P   C947   168-1042-78   16V 0.1 uF   D453   001-0516-90   MA111   J600   074-1134-76   26P   C947   168-1042-78   16V 0.1 uF   D453   001-0516-90   MA111   J901   075-0385-10   OPT JACK   D455   001-0516-90   MA111   J901   075-0385-10   OPT JACK   D455   001-0516-90   MA111   J702   119-0000-05   1/10W 0 ohm JW   J704-0632-50   6.3 V47 uF   D456   001-0529-38   MA8068-M   JW1   119-0000-05   1/10W 0 ohm JW   J704-0632-50   6.3 V47 uF   D560   001-0516-90   MA111   L1   U1-0000-05   1/10W 0 ohm JW   J704-0632-50   6.3 V47 uF   D560   001-0516-90   MA111   L2   U10-3103-64   MMZ1608Y1   U10-3000-05   1/10W 0 ohm JW   U10									
C944   168-1032-55   0.01uF K   D450   001-0516-90   MA111   J401   074-1106-08   RP   O74-1106-12   12P   O74-1106-08   O74-1196-09   O74-1									
C944						I I			
C945   042-0423-20   10V10UF   D451   D01-0516-90   MA111   J600   074-1194-00   13P CE-NET   D452   001-0529-38   MA8068-M   J802   074-1138-76   28P   J802   O74-1138-76   28P   J802   O74-1138-76   28P   J802   O74-1138-76   28P   J802   O74-1138-76   Z8P	1					l I	1		
C946									
C947   168-1042-78   16V 0.1 uF   D453   D01-0516-90   MA111   J901   O75-0385-10   OPT JACK   D454   D0454   D01-0529-38   MA8068-M   JW1   119-0000-05   1/10W 0 ohm JW   D455   D01-0516-90   MA111   JW2   D456   D01-0529-38   MA8068-M   JW3   D456   D01-0516-90   MA111   L1   D456   D01-0516-90   MA111   L1   D456   D01-0516-90   MA111   L1   D10-2275-53   Z20UH   D606   D01-0516-90   MA111   L1   D10-2275-53   Z20UH   D607   D608   D6									
C949   042-0632-50   6.3V47uF   D456   001-0516-90   MA111   D450   001-0529-38   MA8068-M   D450   001-0516-90   MA111   D500   MA111						I I			
C949   042-0632-50   6.3V47uF   D456   001-0516-90   MA111   D450   001-0529-38   MA8068-M   D450   001-0516-90   MA111   D500   MA111	C948	168-1042-78	16V 0.1uF	D454	001-0529-38	MA8068-M	JW1	119-0000-05	1/10W 0 ohm JW
C951   042-0632-50   6.3V47uF   D600   D01-0516-90   MA111   L1   D10-2275-53   220uH   C952   168-1042-78   16V 0.1uF   D601   D602   D01-0516-90   MA111   L3   D10-3103-64   MMZ1608Y1   D602   D01-0516-90   MA111   L3   D10-3103-64   MMZ1608Y1   D603   D01-0529-32   MA8056-M   L4   D10-3406-54   2.2uH   D604   D01-0529-32   MA8056-M   L5   D10-3406-54   2.2uH   D605   D606   D10-0516-90   D607   D607   D608				D455		I I	JW2		
C951   042-0632-50   6.3V47uF   D600   D01-0516-90   MA111   L1   D10-2275-53   220uH   C952   168-1042-78   16V 0.1uF   D601   D602   D01-0516-90   MA111   L3   D10-3103-64   MMZ1608Y1   D602   D01-0516-90   MA111   L3   D10-3103-64   MMZ1608Y1   D603   D01-0529-32   MA8056-M   L4   D10-3406-54   2.2uH   D604   D01-0529-32   MA8056-M   L5   D10-3406-54   2.2uH   D605   D606   D10-0516-90   D607   D607   D608	C950	042-0632-50	6.3V47uF	D456	001-0529-38	MA8068-M	JW3	119-0000-05	1/10W 0 ohm JW
C953					001-0516-90	MA111			
C953	C952	168-1042-78	16V 0.1uF	D601	001-0516-90	MA111	L2	010-3103-64	MMZ1608Y1
C954   168-1042-78   16V 0.1uF   D603   D01-0529-32   MA8056-M   L4   D10-3406-54   2.2uH		168-1042-78	16V 0.1uF	D602	001-0516-90	MA111			
C955         168-1042-78         16V 0.1uF         D604         001-0529-32         MA8056-M         L5         010-3406-54         2.2uH           C956         168-1042-78         16V 0.1uF         D901         001-0516-90         MA111         L52         010-4046-00         30uH           C957         168-1042-78         16V 0.1uF         D902         001-0516-90         MA111         L52         010-4046-00         30uH           C959         042-0632-50         6.3V47uF         D903         001-0535-90         MA729         L230         010-3103-64         MZ1608Y1           C960         042-0632-50         6.3V47uF         D905         001-0535-90         MA729         L301         010-3406-66         22uH           C961         168-1032-55         16V10uF         D906         001-0535-90         MA729         L301         010-3406-66         22uH           C963         042-0592-58         16V10uF         D907         001-0535-90         MA729         L310         010-3406-66         22uH           C964         042-0592-58         16V10uF         D909         001-0535-90         MA729         L310         010-3406-66         22uH           C966         042-0592-58         16V10uF <td< td=""><td></td><td></td><td></td><td></td><td></td><td>I I</td><td></td><td></td><td></td></td<>						I I			
C957         168-1042-78         16V 0.1uF         D902         001-0516-90         MA111         L230         119-0000-05         1/10W 0 ohm JW (PE2629BA)           C958         042-0632-50         6.3V47uF         D903         001-0535-90 MA729         L230         010-3103-64 MMZ1608Y1           C960         042-0632-50         6.3V47uF         D905         001-0535-90 MA729         L230         010-3103-64 MMZ1608Y1           C961         168-1032-55         0.01uF K         D906         001-0535-90 MA729         L301         010-3406-66 22uH           C962         042-0592-58         16V10uF         D908         001-0535-90 MA729         L301         010-3406-66 22uH           C963         042-0423-97         16V10uF         D908         001-0535-90 MA729         L310         010-3103-64 MMZ1608Y1           C965         042-0592-58         16V10uF         D909         001-0535-90 MA729         L310         010-3103-64 MMZ1608Y1           C966         042-0592-58         16V10uF         D909         001-0535-90 MA729         L310         010-3103-64 MMZ1608Y1           C968         042-0592-58         16V10uF         FIL901         060-3110-90 MFM4516P13C204         FBI         L90         010-3103-64 MMZ1608Y1           C975         166-1011		168-1042-78	16V 0.1uF		001-0529-32	MA8056-M			
C958         042-0632-50   6.3V47uF         D903   D904   001-0535-90   MA729   D904   001-0535-90   MA729   D905   001-0535-90   MA729   D905   001-0535-90   MA729   D906   001-0535-90   MA729   D907   001-0535-90   MA729   D908   D907   D908   D908   D908   D909   D909   D908   D909				D901			L52		
C958         042-0632-50   6.3V47uF         D903   D904   001-0535-90   MA729   D904   001-0535-90   MA729   D905   001-0535-90   MA729   D905   001-0535-90   MA729   D906   001-0535-90   MA729   D907   001-0535-90   MA729   D908   D907   D908   D908   D908   D909   D909   D908   D909					001-0516-90	MA111	L230	119-0000-05	1/10W 0 ohm JW
C959	C958	042-0632-50	6.3V47uF	D903					(PE2629BA)
C961         168-1032-55         0.01uF K         D906         001-0535-90         MA729         L301         010-3406-66         22uH           C962         042-0592-58         16V10uF         D907         001-0535-90         MA729         L302         010-3406-66         22uH           C963         042-0423-97         16V10uF         D908         001-0535-90         MA729         L310         010-3103-64         MMZ1608Y1           C965         042-0592-58         16V10uF         D910         001-0535-90         MA729         L311         010-3103-64         MMZ1608Y1           C966         042-0423-97         16V10uF         FIL901         060-3110-90         NFM4516P13C204         L601         010-3406-54         2.2uH           C968         042-0592-58         16V10uF         FIL902         060-3110-90         NFM4516P13C204         L902         010-3103-64         MMZ1608Y1           C969         042-0423-97         16V10uF         FIL902         060-3110-90         NFM4516P13C204         L903         010-3103-64         MMZ1608Y1           C975         166-1011-50         100pF CH         FIL903         060-3110-90         NFM4516P13C204         L905         010-3103-64         MMZ1608Y1           C977	C959	042-0632-50	6.3V47uF				L230	010-3103-64	MMZ1608Y1
C961         168-1032-55         0.01uF K         D906         001-0535-90         MA729         L301         010-3406-66         22uH           C962         042-0592-58         16V10uF         D907         001-0535-90         MA729         L302         010-3406-66         22uH           C963         042-0423-97         16V10uF         D908         001-0535-90         MA729         L310         010-3103-64         MMZ1608Y1           C965         042-0592-58         16V10uF         D910         001-0535-90         MA729         L311         010-3103-64         MMZ1608Y1           C966         042-0423-97         16V10uF         FIL901         060-3110-90         NFM4516P13C204         L601         010-3406-54         2.2uH           C968         042-0592-58         16V10uF         FIL902         060-3110-90         NFM4516P13C204         L902         010-3103-64         MMZ1608Y1           C969         042-0423-97         16V10uF         FIL902         060-3110-90         NFM4516P13C204         L903         010-3103-64         MMZ1608Y1           C975         166-1011-50         100pF CH         FIL903         060-3110-90         NFM4516P13C204         L905         010-3103-64         MMZ1608Y1           C977		042-0632-50	6.3V47uF		001-0535-90	MA729			
C963         042-0423-97 16V10uF         D908         001-0535-90 MA729         L310         010-3103-64 MMZ1608Y1           C964         042-0592-58 16V10uF         D909         001-0535-90 MA729         L311         010-3103-64 MMZ1608Y1           C965         042-0592-58 16V10uF         D910         001-0535-90 MA729         L490         010-2326-00 BL02RN2-R62           C966         042-0423-97 16V10uF         FIL901         060-3110-90 NFM4516P13C204 FBI         L902         010-3103-64 MMZ1608Y1           C969         042-0423-97 16V10uF         FIL902         060-3110-90 NFM4516P13C204 FBI         L903         010-3103-64 MMZ1608Y1           C970         042-0592-58 16V10uF         FIL903         060-3110-90 NFM4516P13C204 FBI         L905         010-3103-64 MMZ1608Y1           C975         166-1011-50 100pF CH         (PE2628BA)         FIL904         060-3110-90 NFM4516P13C204 FBI         L905         010-3103-64 MMZ1608Y1           C977         166-1011-50 100pF CH         (PE2628BA)         FIL904         060-3110-90 NFM4516P13C204 FBI         L906         010-3103-64 MMZ1608Y1           C979         166-1011-50 100pF CH         (PE2628BA)         IC1         051-6212-08 LC72191JM-TLM         L910         010-3103-64 MMZ1608Y1           C980         168-1022-55 1000pF K         IC301         051-3									
C963         042-0423-97 16V10uF         D908         001-0535-90 MA729         L310         010-3103-64 MMZ1608Y1           C964         042-0592-58 16V10uF         D909         001-0535-90 MA729         L311         010-3103-64 MMZ1608Y1           C965         042-0592-58 16V10uF         D910         001-0535-90 MA729         L490         010-2326-00 BL02RN2-R62           C966         042-0423-97 16V10uF         FIL901         060-3110-90 NFM4516P13C204 FBI         L902         010-3103-64 MMZ1608Y1           C969         042-0423-97 16V10uF         FIL902         060-3110-90 NFM4516P13C204 FBI         L903         010-3103-64 MMZ1608Y1           C970         042-0592-58 16V10uF         FIL903         060-3110-90 NFM4516P13C204 FBI         L905         010-3103-64 MMZ1608Y1           C975         166-1011-50 100pF CH         (PE2628BA)         FIL904         060-3110-90 NFM4516P13C204 FBI         L905         010-3103-64 MMZ1608Y1           C977         166-1011-50 100pF CH         (PE2628BA)         FIL904         060-3110-90 NFM4516P13C204 FBI         L906         010-3103-64 MMZ1608Y1           C979         166-1011-50 100pF CH         (PE2628BA)         IC1         051-6212-08 LC72191JM-TLM         L910         010-3103-64 MMZ1608Y1           C980         168-1022-55 1000pF K         IC301         051-3	C962	042-0592-58	16V10uF	D907	001-0535-90	MA729	L302	010-3406-66	22uH
C965         042-0592-58 16V10uF         D910         001-0535-90 MA729         L490         010-2326-00 BL02RN2-R62           C966         042-0423-97 16V10uF         FIL901         060-3110-90 PFIL901         NFM4516P13C204 PFIL902         L601 D10-3406-54 D10-		042-0423-97	16V10uF		001-0535-90	MA729	L310		
C966         042-0423-97   16V10uF         FIL901         060-3110-90   NFM4516P13C204   FBI         L601   L902   010-3406-54   2.2uH           C967         042-0592-58   16V10uF         FIL902   060-3110-90   NFM4516P13C204   FBI         L902   010-3103-64   MMZ1608Y1           C969         042-0423-97   16V10uF         FIL902   060-3110-90   NFM4516P13C204   FBI         L904   010-3103-64   MMZ1608Y1           C970         042-0592-58   16V10uF         FIL903   060-3110-90   NFM4516P13C204   FBI         L905   010-3103-64   MMZ1608Y1           C975         166-1011-50   100pF CH (PE2628BA)         FIL904   060-3110-90   NFM4516P13C204   FBI         L906   010-3103-64   MMZ1608Y1           C977         166-1011-50   100pF CH (PE2628BA)         FIL904   060-3110-90   NFM4516P13C204   FBI         L907   010-3103-64   MMZ1608Y1           C978         168-1032-55   0.01uF K (PS) (PS) (PS) (PS) (PS) (PS) (PS) (PS)	1					I I			
C967 042-0592-58 16V10uF FIL902 060-3110-90 NFM4516P13C204 FBI L902 010-3103-64 MMZ1608Y1 C969 042-0423-97 16V10uF FIL903 060-3110-90 NFM4516P13C204 FBI L904 010-3103-64 MMZ1608Y1 C975 166-1011-50 100pF CH (PE2628BA) FIL904 060-3110-90 NFM4516P13C204 FBI L906 010-3103-64 MMZ1608Y1 C977 166-1011-50 100pF CH (PE2628BA) FIL904 060-3110-90 NFM4516P13C204 FBI L906 010-3103-64 MMZ1608Y1 C978 168-1032-55 0.01uF K IC1 051-6212-08 LC72191JM-TLM L910 010-3103-64 MMZ1608Y1 C980 168-1022-55 1000pF K IC301 051-3026-90 NJM4580V L913 010-3103-64 MMZ1608Y1 C981 168-1022-55 1000pF K IC302 051-3026-90 NJM4580V L914 010-3103-64 MMZ1608Y1 MMZ1608Y1 L914 010-3103-64 MMZ1608Y1 L914				D910			L490		
C968         042-0592-58 16V10uF         FIL902         060-3110-90         NFM4516P13C204 FBI         L903         010-3103-64 MMZ1608Y1           C970         042-0592-58 16V10uF         FIL903         060-3110-90         NFM4516P13C204 FBI         L905         010-3103-64 MMZ1608Y1           C975         166-1011-50 100pF CH         (PE2628BA)         FIL904         060-3110-90         NFM4516P13C204 FBI         L906         010-3103-64 MMZ1608Y1           C977         166-1011-50 100pF CH         (PE2628BA)         FIL904         060-3110-90         NFM4516P13C204 FBI         L906         010-3103-64 MMZ1608Y1           C978         168-1032-55 0.01uF K         IC1         051-6212-08 LC72191JM-TLM         L910         010-3103-64 MMZ1608Y1           C979         166-1011-50 100pF CH         IC200         051-3297-10 BA4916-V2         L911         010-3406-62 DA9           C980         168-1022-55 1000pF K         IC301         051-3026-90 NJM4580V         L913         010-3103-64 MMZ1608Y1           C981         168-1022-55 1000pF K         IC302         051-3026-90 NJM4580V         L914         010-3103-64 MMZ1608Y1				FIL901	060-3110-90				
C969	1					I I			
C970	1			FIL902	060-3110-90	I I			
C970		042-0423-97	16V10uF			FBI	L904		
C977   166-1011-50   100pF CH   C978   168-1032-55   0.01uF K   C979   166-1011-50   100pF CH   C980   168-1022-55   1000pF K   C981   168-1022-55   1000pF K   C302   C31-3026-90   NJM4580V   C981   168-1022-55   1000pF K   C302   051-3026-90   NJM4580V   C981   C302   C31-3026-90   NJM4580V   C981   C302   C31-3026-90   NJM4580V   C981   C302   C31-3026-90   NJM4580V   C31-3026-90   NJM4580V   C31-3103-64   MMZ1608Y1   C302   C31-3026-90   NJM4580V   C31-3103-64   MMZ1608Y1   C3	1			FIL903	060-3110-90			010-3103-64	MMZ1608Y1
C977	C975	166-1011-50	100pF CH			· - ·	L906		
C978       168-1032-55   0.01uF K       IC1       051-6212-08   LC72191JM-TLM       L910   010-3103-64   MMZ1608Y1         C979       166-1011-50   100pF CH       IC200   051-3297-10   BA4916-V2   L911   010-3406-62   10uH         C980       168-1022-55   1000pF K       IC301   051-3026-90   NJM4580V   L913   L914   010-3103-64   MMZ1608Y1         C981       168-1022-55   1000pF K       IC302   051-3026-90   NJM4580V   L914   L914   010-3103-64   MMZ1608Y1	1		` '	FIL904	060-3110-90	NFM4516P13C204	L907	010-3103-64	MMZ1608Y1
C979       166-1011-50 100pF CH       IC200 051-3297-10 BA4916-V2       L911 010-3406-62 10uH         C980       168-1022-55 1000pF K       IC301 051-3026-90 NJM4580V       L913 010-3103-64 MMZ1608Y1         C981       168-1022-55 1000pF K       IC302 051-3026-90 NJM4580V       L914 010-3103-64 MMZ1608Y1	C977	166-1011-50	100pF CH			FBI	L908	010-3103-64	MMZ1608Y1
C979       166-1011-50 100pF CH       IC200 051-3297-10 BA4916-V2       L911 010-3406-62 10uH         C980       168-1022-55 1000pF K       IC301 051-3026-90 NJM4580V       L913 010-3103-64 MMZ1608Y1         C981       168-1022-55 1000pF K       IC302 051-3026-90 NJM4580V       L914 010-3103-64 MMZ1608Y1		168-1032-55	0.01uF K	IC1	051-6212-08	LC72191JM-TLM	L910	010-3103-64	MMZ1608Y1
C980   168-1022-55   1000pF K	1					l I	1		
C981   168-1022-55   1000pF K     IC302   051-3026-90   NJM4580V     L914   010-3103-64   MMZ1608Y1	1					l I		010-3103-64	MMZ1608Y1
	C981	168-1022-55	1000pF K	IC302	051-3026-90	NJM4580V	L914	010-3103-64	MMZ1608Y1
	C982	168- <u>103</u> 2- <u>5</u> 5	0.01uF K	IC303	<u>051-5020-9</u> 0	M61508FP	L915		

DEE N	DARTH	DECODIDATION	DEE N	DARTH	DECODURTION	DEE N	DADEN DECORPTION
REF No.	PART No.	DESCRIPTION		PART No.	DESCRIPTION		PART No. DESCRIPTION
L916	010-3406-66		Q240	125-2004-96		R256	116-4701-15 1/4W 47 ohm
L917	l .	BLM21A102FPB	Q300	125-2004-93		R257	116-1221-15 1/4W 1.2k ohm
L918	010-3103-64	I I	Q301	125-2004-96		R301	119-1041-15 1/10W 100k ohm
L919	010-3103-64		Q302	192-2712-00	l I	R302	119-1041-15 1/10W 100k ohm
L920	010-3103-64		Q303	125-2004-92	l I	R303	119-1041-15 1/10W 100k ohm
L921	010-3103-64		Q413	193-1328-00		R304	119-1041-15 1/10W 100k ohm
L922	010-3103-64		Q414	193-1328-00		R305	119-1021-15 1/10W 1k ohm
L923 L924	010-3103-64		Q415	193-1328-00 193-1328-00		R306	119-1021-15 1/10W 1k ohm
L924 L925	010-3103-64 010-3103-64		Q416 Q417	193-1328-00		R307 R308	032-0140-58 1/10W 51k ohm F 032-0140-58 1/10W 51k ohm F
L925	010-3103-64	I I	Q417 Q418	125-0002-92	l I	R309	032-0140-58 1/10W 51k 0hm F
L926	010-3103-64		Q418 Q419	193-1328-00		R310	
L927	010-3103-64		Q419 Q420	125-0002-92		R311	032-0140-58 1/10W 51k ohm F 032-0140-58 1/10W 51k ohm F
L928	010-3103-64		Q420 Q421	193-1328-00		R312	032-0140-58 1/10W 51k 0hm F
L930	010-3103-64		Q421 Q422	193-1328-00		R313	032-0140-58 1/10W 51k 0hm F
L930	010-3103-64		Q422 Q600	125-2004-92	l I		032-0140-58 1/10W 51k 0hm F
L932	010-3103-64	I I	Q601	125-2004-92		R315	119-1031-15 1/10W 10k ohm
L933	010-3103-64		Q602	125-2004-93			119-1031-15 1/10W 10k 0hm
L934	010-3103-64	I I	Q603	190-1162-00	l I	R317	119-1031-15 1/10W 10k 0hm
L935	010-3103-64		Q604	125-0002-92	l I	R318	119-1031-15 1/10W 10k ohm
L936	010-3103-64		Q605	125-0002-92	·		119-1031-15 1/10W 10k 0hm
L937	010-3103-64		Q606	125-2004-93		R320	119-1031-15 1/10W 10k ohm
L938	010-3103-64		Q901	125-2004-93		R321	119-1031-15 1/10W 10k 0hm
L939	010-3103-64		Q902	125-2004-92		R322	119-1031-15 1/10W 10k 0hm
L940	010-3103-64		Q903	125-2004-93		R323	032-0140-96 1/10W 120k ohm F
L941	010-3103-64		Q904	125-2004-92		R324	032-0140-96 1/10W 120k ohm F
L942	010-3103-64		R1		1/10W 1k ohm	R325	032-0140-96 1/10W 120k ohm F
L946	010-3103-64		R2		1/10W 330 ohm	R326	032-0140-96 1/10W 120k ohm F
L947	010-3103-64		R3		1/10W 4.7k ohm		119-4721-15 1/10W 4.7k ohm
L948	010-3103-64	I I	R4		1/10W 4.7k ohm	R328	119-4721-15 1/10W 4.7k ohm
L949	010-3103-64		R5		1/10W 12k ohm	R329	119-1241-15 1/10W 120k ohm
L950	010-3103-64		R6		1/10W 12k ohm	R330	119-1041-15 1/10W 100k ohm
L951	010-3103-64		R7		1/10W 12k ohm	R331	119-1221-15 1/10W 1.2k ohm
L952	010-3103-64	I I	R9		1/10W 470k ohm		119-1021-15 1/10W 1k ohm
L953	010-3103-64		R10		1/10W 2.2k ohm	R333	119-3311-15 1/10W 330 ohm
L954	010-3103-64		R14		1/10W 56k ohm	R334	119-3311-15 1/10W 330 ohm
L955	010-3103-64		R15		1/10W 10k ohm	R335	119-3311-15 1/10W 330 ohm
L956	010-3103-64	MMZ1608Y1	R16	119-2221-15	1/10W 2.2k ohm	R336	119-3311-15 1/10W 330 ohm
L957	010-3103-64		R17	119-1521-15	1/10W 1.5k ohm	R337	032-0140-51 1/10W 15k ohm F
L958	010-3103-64	MMZ1608Y1	R18	119-1031-15	1/10W 10k ohm	R338	032-0140-51 1/10W 15k ohm F
L959	010-3103-64	MMZ1608Y1	R19	119-1031-15	1/10W 10k ohm	R339	032-0140-51 1/10W 15k ohm F
L960	010-3103-64	MMZ1608Y1	R20	119-1031-15	1/10W 10k ohm	R340	032-0140-51 1/10W 15k ohm F
L961	010-3103-64	MMZ1608Y1	R21		1/10W 1k ohm	R341	119-1011-15 1/10W 100 ohm
L962	010-3103-64	MMZ1608Y1	R24	119-1521-15	1/10W 1.5k ohm	R342	119-1011-15 1/10W 100 ohm
L963	010-3103-64	MMZ1608Y1	R25	119-1521-15	1/10W 1.5k ohm	R343	119-1011-15 1/10W 100 ohm
L964	010-3103-64	MMZ1608Y1	R27	119-1021-15	1/10W 1k ohm	R344	119-1011-15 1/10W 100 ohm
L965	010-3103-64	MMZ1608Y1	R28	119-1021-15	1/10W 1k ohm	R345	119-4731-15 1/10W 47k ohm
L966	010-3103-64	MMZ1608Y1	R29	119-1021-15	1/10W 1k ohm	R346	119-2731-15 1/10W 27k ohm
P1	076-0515-22	22P	R30	119-1041-15	1/10W 100k ohm	R347	119-2731-15 1/10W 27k ohm
P401	076-0515-08	8P	R83	119-1021-15	1/10W 1k ohm	R348	119-1031-15 1/10W 10k ohm
P402	076-0515-12	12P	R200	119-1041-15	1/10W 100k ohm	R349	119-1031-15 1/10W 10k ohm
P501	076-6002-12	PLUG	R201		1/10W 100k ohm	R350	119-1031-15 1/10W 10k ohm
Q1		2SC2712G,L	R202		1/10W 5.6k ohm	R351	119-1831-15 1/10W 18k ohm
Q2		2SC2712G,L	R203		1/10W 47k ohm		119-1021-15 1/10W 1k ohm
Q3	193-1858-00		R204		1/10W 56k ohm		119-1021-15 1/10W 1k ohm
Q4	125-2004-93		R205		1/10W 10k ohm		119-8221-15 1/10W 8.2k ohm
Q5	190-1162-00		R206		1/10W 10k ohm		119-1021-15 1/10W 1k ohm
Q6	190-1162-00		R207		1/10W 1k ohm	R356	119-1021-15 1/10W 1k ohm
Q7	190-1162-00		R209		1/10W 15k ohm		119-2231-15 1/10W 22k ohm
Q201	125-2004-96		R210		1/10W 10k ohm		119-2731-15 1/10W 27k ohm
Q202	190-1298-00		R211		1/10W 47k ohm		119-2731-15 1/10W 27k ohm
Q203	192-2712-00		R212		1/10W 4.7k ohm		119-5631-15 1/10W 56k ohm
Q204	190-1162-00		R213		1/10W 2.2k ohm		119-1031-15 1/10W 10k ohm
Q205	190-1162-00		R216		1/10W 1k ohm		119-1031-15 1/10W 10k ohm
Q207	192-2712-00		R217		1/10W 22k ohm		119-1031-15 1/10W 10k ohm
Q215	103-2012-00		R224		1/10W 47 ohm	R364	119-1031-15 1/10W 10k ohm
Q216	125-2004-93		R225		1/10W 10k ohm	R365	119-1031-15 1/10W 10k ohm
Q217	191-1237-00		R226		1/4W 1.2k ohm	1	119-1041-15 1/10W 100k ohm
Q218	125-2004-93		R227		1/10W 10k ohm	R367	119-1041-15 1/10W 100k ohm
Q219	191-1237-00		R228		1/4W 1.2k ohm		119-1041-15 1/10W 100k ohm
Q220	125-2004-93		R229		1/4W 1.5k ohm	R369	119-1041-15 1/10W 100k ohm
Q230	191-1237-50		R230		1/10W 2.2k ohm	R370	119-1041-15 1/10W 100k ohm
Q234	125-0002-92		R231		1/4W 220 ohm		119-1041-15 1/10W 100k ohm
Q235	l .	2SD1802FA-R.S.T	R233		1/10W 10k ohm 1/10W 10k ohm	1	119-1041-15 1/10W 100k ohm 119-1041-15 1/10W 100k ohm
Q236 Q238	125-2004-92 125-0013-97		R234 R235		1/10W 10K onm 1/10W 2.2k ohm	R373 R401	032-0165-50 1/4W 750 ohm
Q238 Q239	125-0013-97		R255 R255		1/10W 2.2K onm 1/4W 47 ohm	R401 R402	
QZJ3	120-2004-92	INITIO	11200	110-4701-15	1/4VV 4/ UIIII	11402	032-0165-50 1/4W 750 ohm

R460	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R406   032-0165-50   I/4W 750 ohm   R406   032-0165-50   I/4W 750 ohm   R407   032-0165-50   I/4W 750 ohm   R511   119-0141-15   I/10W 100k ohm   R680   032-0165-50   I/4W 750 ohm   R514   032-0165-50   I/4W 750 ohm   R515   032-0144-64   I/8W 30 ohm   R650   119-1021-15   I/10W 10k ohm   R641   032-0165-50   I/4W 750 ohm   R516   032-0144-68   I/8W 22k ohm   R651   119-1021-15   I/10W 10k ohm   R641   032-0165-50   I/4W 750 ohm   R516   032-0144-68   I/8W 30 ohm   R651   119-1021-15   I/10W 10k ohm   R641   032-0144-51   I/8W 47k ohm   R516   032-0144-68   I/8W 30 ohm   R651   119-1021-15   I/10W 10k ohm   R641   032-0144-51   I/8W 47k ohm   R516   032-0144-68   I/8W 30 ohm   R641   032-0144-51   I/8W 47k ohm   R520   032-0144-68   I/8W 30 ohm   R641   032-0144-51   I/8W 47k ohm   R652   119-1021-15   I/10W 10k ohm   R641   032-0144-51   I/8W 47k ohm   R652   119-1021-15   I/10W 10k ohm   R641   032-0144-51   I/8W 47k ohm   R652   119-1021-15   I/10W 10k ohm   R641   032-0144-51   I/8W 47k ohm   R652   119-1021-15   I/10W 10k ohm   R642   032-0144-51   I/8W 47k ohm   R652   119-1021-15   I/10W 10k ohm   R642   032-0144-51   I/8W 47k ohm   R652   119-1021-15   I/10W 10k ohm   R642   032-0144-51   I/8W 47k ohm   R652   119-1021-15   I/10W 10k ohm   R642   032-0144-51   I/8W 47k ohm   R652   119-1021-15   I/10W 10k ohm   R642   119-1021-15   I/10W 10k ohm   R651   I/10W 10k ohm   R652   I/10W 10k ohm   R651   I/10W 10k ohm   R652   I/10W 10k ohm   R652   I/10W 10k ohm   R652   I/10W 10k ohm   R653	R403	032-0165-50	1/4W 750 ohm	R460	032-0144-67	1/8W 18k ohm J	R634	119-0000-05	1/10W 0 ohm JW
R406	R404	032-0165-50	1/4W 750 ohm	R461	119-1021-15	1/10W 1k ohm			(PE2629KA)
R408   032-0168-50   I/AW 750 ohm   R409   032-0168-50   I/AW 750 ohm   R409   032-0168-50   I/AW 750 ohm   R410   032-0168-50   I/AW 750 ohm   R411   032-0168-50   I/AW 750 ohm   R411   032-0168-50   I/AW 750 ohm   R412   032-0168-50   I/AW 750 ohm   R412   032-0168-50   I/AW 750 ohm   R413   032-0144-51   I/BW 4.7k ohm   R516   032-0144-61   I/BW 22k ohm   R621   III-15   I/IIDW 1k ohm   R621   III-15   I/IDW 1k ohm   R621   III-15   I/IDW 1k ohm   R622   III-15   I/IDW 2k ohm   R622   III-15   I/IDW 1k ohm   R622   III-15   I/IDW 1k ohm   R622   III-15   I/IDW 2k ohm   R622   III-15   I/IDW 1k ohm   R622   III-15   III-	R405	032-0165-50	1/4W 750 ohm	R509	119-1041-15	1/10W 100k ohm	R638	119-1041-15	1/10W 100k ohm
R409   032-0168-50   1/4W 750 ohm   R410   032-0168-50   1/4W 750 ohm   R410   032-0168-50   1/4W 750 ohm   R411   032-0168-50   1/4W 750 ohm   R412   032-0168-50   1/4W 750 ohm   R412   032-0168-50   1/4W 750 ohm   R413   032-0144-51   1/8W 4.7k ohm   R516   032-0144-51   1/8W 4.7k ohm   R518   032-0144-51   1/8W 4.7k ohm   R518   032-0144-51   1/8W 4.7k ohm   R518   032-0144-51   1/8W 4.7k ohm   R520   032-0144-51   1/8W 4.7k ohm   R520   032-0144-51   1/8W 4.7k ohm   R414   032-0144-51   1/8W 4.7k ohm   R520   032-0144	R406	032-0165-50	1/4W 750 ohm	R510	119-1041-15	1/10W 100k ohm	R642	119-0000-05	1/10W 0 ohm JW
R410	R407	032-0165-50	1/4W 750 ohm	R511	119-1041-15	1/10W 100k ohm			(PE2629BA)
R411	R408	032-0165-50	1/4W 750 ohm	R513	032-0144-64	1/8W 330 ohm J	R650	119-1021-15	1/10W 1k ohm
R411	R409	032-0165-50	1/4W 750 ohm	R514	032-0144-68	1/8W 22k ohm J	R651	119-1021-15	1/10W 1k ohm
R413	R410	032-0165-50	1/4W 750 ohm	R515	119-1021-15	1/10W 1k ohm	R652	119-1021-15	1/10W 1k ohm
R414   032-0144-51   18W 4.7k ohm J   R519   032-0144-61   18W 33.0 ohm J   R619   032-0144-51   18W 4.7k ohm J   R520   032-0144-61   18W 33.0 ohm J   R619   032-0144-51   18W 4.7k ohm J   R521   032-0144-61   170W 18c ohm   R621   170W 18c ohm   R622   032-0144-51   170W 18c ohm   R623   032-0144-51   170W 18c ohm   R624   032-0144-51   170W 18c oh	R411	032-0165-50	1/4W 750 ohm	R516	032-0144-68	1/8W 22k ohm J	R901	119-8211-15	1/10W 820 ohm
R415   032-0144-51   18W 4.7k ohm J   R520   032-0144-61   18W 22k ohm J   R806   032-0140-80   119-1031-15   1/10W 1k ohm   R416   032-0144-51   1/8W 4.7k ohm J   R520   032-0144-61   1/8W 22k ohm J   R806   032-0140-80   1/10W 1k ohm   R807   1/10W 1k ohm   R809   1/10W 1k ohm   R8	R412	032-0165-50	1/4W 750 ohm	R517	119-1021-15	1/10W 1k ohm	R902	119-8211-15	1/10W 820 ohm
R416   032-0144-51   18W 4.7k ohm J   R520   032-0144-68   18W 22k ohm J   R805   119-3321-15   1/10W 18 ohm   R417   032-0144-51   1/8W 4.7k ohm J   R521   032-0144-68   1/8W 22k ohm J   R806   R807   119-4711-15   1/10W 18 ohm   R808   R807   119-4711-15   1/10W 18 ohm   R808   R807   119-4711-15   1/10W 18 ohm   R808   R807   119-4711-15   1/10W 470 ohm   R808	R413	032-0144-51	1/8W 4.7k ohm J	R518	032-0144-64	1/8W 330 ohm J	R903	119-8211-15	1/10W 820 ohm
R416	R414	032-0144-51	1/8W 4.7k ohm J	R519	032-0144-64	1/8W 330 ohm J	R904	119-1031-15	1/10W 10k ohm
R417   032-0144-51   18W 4 7k ohm J   R522   032-0144-68   18W 22k ohm J   R907   119-4711-15   1700 470 ohm   R419   032-0144-51   18W 4 7k ohm J   R525   032-0144-68   18W 330 ohm J   R909   119-1011-15   1710W 170 ohm   R910   119-3011-15   1710W 170 ohm   R910   1	R415	032-0144-51	1/8W 4.7k ohm J	R520	032-0144-68	1/8W 22k ohm J	R905	119-3321-15	1/10W 3.3k ohm
R419   032-0144-51   1/8W 4.7k ohm J   R523   119-1021-15   1/10W 1k ohm   R420   032-0144-51   1/8W 4.7k ohm J   R526   032-0144-64   1/8W 330 ohm J   R910   119-1011-15   1/10W 100 ohm   R421   032-0144-51   1/8W 4.7k ohm J   R526   032-0144-64   1/8W 330 ohm J   R910   119-2021-15   1/10W 2.2k ohm   R422   032-0144-51   1/8W 4.7k ohm J   R526   032-0144-64   1/8W 330 ohm J   R910   119-2021-15   1/10W 2.2k ohm   R422   032-0144-51   1/8W 4.7k ohm J   R526   032-0144-64   1/8W 22k ohm J   R911   119-1001-15   1/10W 1/8 ohm   R426   117-5621-15   1/8W 5.6k ohm   R425   117-5621-15   1/8W 5.6k ohm   R426   117-5621-15   1/8W 4.7k ohm J   R531   119-1021-15   1/10W 1k ohm   R430   032-0144-51   1/8W 4.7k ohm J   R533   119-1021-15   1/10W 1k ohm   R430   032-0144-51   1/8W 4.7k ohm J   R535   119-1021-15   1/10W 1k ohm   R430   032-0144-51   1/8W 4.7k ohm J   R536   119-1021-15   1/10W 1k ohm   R431   032-0144-51   1/8W 4.7k ohm J   R536   119-1021-15   1/10W 1k ohm   R431   032-0144-51   1/8W 4.7k ohm J   R601   119-3321-15   1/10W 1k ohm   R921   119-1021-15   1/10W 1k ohm   R922   119-1021-15   1/10W 1k ohm   R431   032-0144-51   1/8W 4.7k ohm J   R601   119-3321-15   1/10W 1k ohm   R922   119-1021-15   1/10W 1k ohm   R923   119-1021-15   1/10W 1k ohm   R923   119-1021-15   1/10W 1k ohm   R923   119-1021-15   1/10W 1k ohm   R924   119-1021-15   1/10W 1k ohm   R925   119-1021-15   1/10W 1k ohm   R926   119-1021-15   1/10W 1k ohm   R927   119-1021-15   1/10W 1k ohm   R928   119-1021-15   1/10W 1k ohm   R928   119-1021-15   1/10W 1k ohm   R929   119-1021-15   1/10W 1k ohm   R921   119-1021-15   1/10W 1k ohm   R921   119-1021-15   1/10W 1k ohm   R922   119-1021-15   1/10W 1k ohm   R923	R416	032-0144-51	1/8W 4.7k ohm J	R521	119-1021-15	1/10W 1k ohm	R906	032-0140-80	1/10W 18k ohm F
R429	R417	032-0144-51	1/8W 4.7k ohm J	R522	032-0144-68	1/8W 22k ohm J	R907	119-4711-15	1/10W 470 ohm
R420   032-0144-51   1/8W 4.7k ohm J   R421   032-0144-51   1/8W 4.7k ohm J   R422   032-0144-51   1/8W 4.7k ohm J   R422   032-0144-51   1/8W 4.7k ohm J   R526   032-0144-68   1/8W 22k ohm J   R911   119-301-15   1/10W 10 ohm   R912   119-1001-15   1/10W 10 ohm   R912   119-301-15   1/10W 10 ohm   R913   119-301-15   1/10W 10 ohm   R914   119-301-15   1/10W 10 ohm   R915   119-301-15   1/10W 10 ohm   R916   119-301-15   1/10W 10 ohm   R917   119-301-15   1/10W 10 ohm   R918   119-301-15   1/10W 10 ohm   R918   119-301-15   1/10W 10 ohm   R918   119-471-15   1/10W 10 ohm   R919   119-471-15   1/10W 10 ohm   R921   119-471-15   1/10W 10 ohm   R921   119-471-15   1/10W 10 ohm   R922   119-471-15   1/10W 10 ohm   R921   119-471-15   1/10W 10 ohm   R922   119-471-15   1/10W 10 ohm   R921   119-471-15   1/10W 10	R418	032-0144-51	1/8W 4.7k ohm J	R523	119-1021-15	1/10W 1k ohm	R908	119-4711-15	1/10W 470 ohm
R422   032-0144-51 1/8W 4.7k ohm J   R526   032-0144-68 1/8W 22k ohm J   R527   119-1021-15 1/10W 1k ohm   R528   032-0144-51 1/8W 5.6k ohm   R529   119-1021-15 1/10W 1k ohm   R528   032-0144-51 1/8W 4.7k ohm J   R528   032-0144-64 1/8W 330 ohm J   R521   119-3311-15 1/10W 330 ohm   R426   117-5621-15 1/8W 5.6k ohm   R531   032-0144-64 1/8W 330 ohm J   R515   119-1021-15 1/10W 1k ohm   R528   117-5621-15 1/8W 5.6k ohm   R531   032-0144-64 1/8W 330 ohm J   R516   119-1021-15 1/10W 1k ohm   R529   032-0144-51 1/8W 5.6k ohm   R532   032-0144-64 1/8W 330 ohm J   R516   119-1021-15 1/10W 1k ohm   R529   032-0144-51 1/8W 5.6k ohm   R531   032-0144-64 1/8W 330 ohm J   R516   119-1021-15 1/10W 1k ohm   R531   032-0144-64 1/8W 330 ohm J   R516   119-1021-15 1/10W 1k ohm   R529   032-0144-51 1/8W 4.7k ohm J   R536   032-0144-68 1/8W 22k ohm J   R516   119-1021-15 1/10W 1k ohm   R531   032-0144-64 1/8W 330 ohm J   R516   119-1021-15 1/10W 1k ohm   R534   032-0144-51 1/8W 4.7k ohm J   R536   032-0144-64 1/8W 330 ohm J   R516   119-1031-15 1/10W 1k ohm   R529   119-1031-15 1/10W 1k ohm   R529   119-1031-15 1/10W 1k ohm   R520   119-3311-15 1/10W 330 ohm   R520   119-3311-15 1/10W 1k ohm   R520   119-3311-15 1/10W 330 ohm   R520   119-3311-15 1/10W	R419	032-0144-51	1/8W 4.7k ohm J	R524	032-0144-64	1/8W 330 ohm J	R909	119-1011-15	1/10W 100 ohm
R422   032-0144-51   1/8W 4.7k ohm J   R528   032-0144-68   1/8W 22k ohm J   R912   119-1001-15   1/10W 130 ohm R426   117-5621-15   1/8W 5.6k ohm R529   119-1021-15   1/10W 1k ohm R914   119-1521-15   1/10W 130 ohm R914   119-1521-15   1/10W 330 ohm J   R529   119-1021-15   1/10W 1k ohm R914   119-1521-15   1/10W 10k ohm R914   119-1521-15   1/10W 1k ohm R920   119-1021-15   1/10W 1k ohm R921   119-1021-15   1/10W 1k ohm R921   119-1021-15   1/10W 1k ohm R922   119-1021-15   1/10W 1k ohm R921   119-1021-15   1/10W 1k ohm R922   119-1021-15   1/10W 1k ohm R921   119-1021-15   1/10W 1k ohm R921   119-1021-15   1/10W 1k ohm R922   119-1021-15   1/10W 1k ohm R921   119-1021-15   1/10W 30 ohm R922   119-1021-15   1/10W 30 ohm R923   119-1021-15   1/10W 30 ohm R923   119-1021-15   1/10W 30 ohm R923   119-1021-15   1/10W 30 ohm R924   119-1021-15   1/10W 1k ohm R923   119-102	R420	032-0144-51	1/8W 4.7k ohm J	R525	032-0144-64	1/8W 330 ohm J	R910	119-2221-15	1/10W 2.2k ohm
R423   032-0144-51   1/8W 4.7k ohm J   R529   119-1021-15   1/10W 1k ohm   R520   119-1021-15   1/10W 1k ohm   R915   119-471-15   1/10W 1s.6k ohm   R530   032-0144-64   1/8W 330 ohm J   R914   119-471-15   1/10W 1s.6k ohm   R530   032-0144-64   1/8W 330 ohm J   R915   119-471-15   1/10W 1s.6k ohm   R530   032-0144-68   1/8W 22k ohm J   R916   119-471-15   1/10W 1s.6k ohm   R531   032-0144-68   1/8W 22k ohm J   R916   119-471-15   1/10W 1s.6h ohm   R532   032-0144-68   1/8W 22k ohm J   R916   119-471-15   1/10W 1s.6h ohm   R429   032-0144-51   1/8W 4.7k ohm J   R535   119-1021-15   1/10W 1k ohm   R916   119-1031-15   1/10W 1s.6h ohm   R531   032-0144-65   1/8W 22k ohm J   R916   119-1031-15   1/10W 1s.6h ohm   R531   032-0144-65   1/8W 4.7k ohm   R536   119-1021-15   1/10W 1k ohm   R920   119-1021-15   1/10W 1s.6h ohm   R92	R421	032-0144-51	1/8W 4.7k ohm J	R526	032-0144-68	1/8W 22k ohm J	R911	119-3311-15	1/10W 330 ohm
R425   117-5621-15   1/8W 4.7k ohm   R529   119-1021-15   1/10W 1k ohm   R426   117-5621-15   1/8W 5.6k ohm   R427   117-5621-15   1/8W 5.6k ohm   R427   117-5621-15   1/8W 5.6k ohm   R428   117-5621-15   1/8W 5.6k ohm   R429   032-0154-52   1/4W 4.7k ohm   R430   032-0144-51   1/8W 4.7k ohm   R430   032-0144-51   1/8W 4.7k ohm   R431   032-0144-51   1/8W 4.7k ohm   R432   032-0144-51   1/8W 4.7k ohm   R433   032-0144-51   1/8W 4.7k ohm   R434   032-0144-51   1/8W 4.7k ohm   R436   032-0144-51   1/8W 4.7k ohm   R437   032-0154-52   1/4W 4.7k ohm   R438   032-0144-51   1/8W 4.7k ohm   R439   032-0144-51   1/8W 4.7k ohm   R430   032	R422	032-0144-51	1/8W 4.7k ohm J	R527	119-1021-15	1/10W 1k ohm	R912	119-1001-15	1/10W 10 ohm
R425	R423	032-0144-51	1/8W 4.7k ohm J	R528	032-0144-68	1/8W 22k ohm J	R913	119-3311-15	1/10W 330 ohm
R426	R424	032-0144-51	1/8W 4.7k ohm J	R529	119-1021-15	1/10W 1k ohm	R914	119-1521-15	1/10W 1.5k ohm
R427	R425	117-5621-15	1/8W 5.6k ohm	R530	032-0144-64	1/8W 330 ohm J	R915	119-4711-15	1/10W 470 ohm
R428	R426	117-5621-15	1/8W 5.6k ohm	R531	032-0144-64	1/8W 330 ohm J	R916	119-1011-15	1/10W 100 ohm
R429         032-0154-52         1/4W 4.7k ohm J         R534         032-0144-68         1/8W 22k ohm J         R919         119-1031-15         1/10W 10k ohm           R430         032-0144-51         1/8W 4.7k ohm J         R535         119-1021-15         1/10W 1k ohm         R920         119-1021-15         1/10W 1k ohm           R433         032-0154-52         1/4W 4.7k ohm         R536         032-0144-51         1/8W 4.7k ohm         R538         119-1051-15         1/10W 1M ohm         R921         119-1021-15         1/10W 1k ohm           R434         032-0144-51         1/8W 4.7k ohm J         R600         119-3321-15         1/10W 1M ohm         R922         119-1021-15         1/10W 1k ohm           R435         032-0144-51         1/8W 4.7k ohm J         R600         119-3321-15         1/10W 4.7k ohm         R921         119-1031-15         1/10W 10k ohm           R437         032-0154-52         1/4W 4.7k ohm J         R602         119-4721-15         1/10W 4.7k ohm         R925         119-2711-15         1/10W 330 ohm           R440         032-0154-52         1/4W 4.7k ohm J         R605         119-6801-15         1/10W 4.7k ohm         R925         119-3311-15         1/10W 330 ohm         R926         119-3311-15         1/10W 330 ohm         R926	R427	117-5621-15	1/8W 5.6k ohm	R532	032-0144-68	1/8W 22k ohm J	R917	119-1021-15	1/10W 1k ohm
R430   032-0144-51   1/8W 4.7k ohm J R535   119-1021-15   1/10W 1k ohm R431   032-0144-51   1/8W 4.7k ohm R538   119-1051-15   1/10W 1M ohm R433   032-0154-52   1/4W 4.7k ohm R600   119-3321-15   1/10W 1M ohm R436   032-0154-52   1/4W 4.7k ohm R601   119-4721-15   1/10W 1k ohm R231   119-5611-15   1/10W 1M ohm R436   032-0154-52   1/4W 4.7k ohm R602   119-4721-15   1/10W 68 ohm R438   032-0154-52   1/4W 4.7k ohm R601   119-1031-15   1/10W 1M ohm R439   032-0154-52   1/4W 4.7k ohm R601   119-1031-15   1/10W 1M ohm R440   032-0154-52   1/4W 4.7k ohm R607   119-1031-15   1/10W 1M ohm R608   119-1031-15   1/10W 1M ohm R601   119-1031-15   1/10W 1M ohm R603   119-1031-15   1/10W 1M ohm R604   119-1031-15   1/10W 1	R428	117-5621-15	1/8W 5.6k ohm	R533	119-1021-15	1/10W 1k ohm	R918	119-1031-15	1/10W 10k ohm
R431   032-0144-51   1/8W 4.7k ohm J R536   032-0144-64   1/8W 330 ohm J R432   032-0154-52   1/4W 4.7k ohm R539   119-1051-15   1/10W 1M ohm R434   032-0144-51   1/8W 4.7k ohm J R600   119-3321-15   1/10W 4.7k ohm R436   032-0154-52   1/4W 4.7k ohm J R601   119-4721-15   1/10W 1M ohm R923   119-5011-15   1/10W 1M ohm R931   119-3311-15   1/10W 1M ohm R925   119-2711-15   1/10W 30 ohm R936   119-3311-15   1/10W 4.7k ohm R926   119-3311-15   1/10W 30 ohm R936   119-3311-15   1/10W 4.7k ohm R926   119-3311-15   1/10W 30 ohm R931   119-3311-15   1/10W 330 ohm R936   119-3311-15   1/10W 330 ohm R937   119-3311-15   1/10W 330 ohm R938   119-3311-15   1/10W 330 ohm R936   119-3311-15   1/10W 330 ohm R937   119-3311-15   1/10W 330 ohm R938   119-1041-15   1/10W 10k ohm R938   119-1041-15   1/10W 10k ohm R938   119-1041-15   1/10W 10k ohm R937   119-1041-15   1/10W 10k ohm R938   119-1041-15   1/10W 10k ohm R937   119-1031-15   1/10W 10k ohm R938   119-	R429	032-0154-52	1/4W 4.7k ohm	R534	032-0144-68	1/8W 22k ohm J	R919	119-1031-15	1/10W 10k ohm
R432         032-0154-52         1/4W 4.7k ohm         R538         119-1051-15         1/10W 1M ohm         R922         119-1021-15         1/10W 1k ohm           R433         032-0154-52         1/4W 4.7k ohm         R600         119-321-15         1/10W 1M ohm         R923         119-1021-15         1/10W 1k ohm           R435         032-0144-51         1/8W 4.7k ohm         R600         119-4731-15         1/10W 4.7k ohm         R924         119-1031-15         1/10W 4.7k ohm           R436         032-0154-52         1/4W 4.7k ohm         R602         119-4731-15         1/10W 4.7k ohm         R925         119-2711-15         1/10W 30 ohm           R438         032-0154-52         1/4W 4.7k ohm         R602         119-4731-15         1/10W 4.7k ohm         R926         119-3311-15         1/10W 330 ohm           R439         032-0154-52         1/4W 4.7k ohm         R606         119-1031-15         1/10W 10k ohm         R928         119-3311-15         1/10W 330 ohm           R440         032-0154-52         1/4W 4.7k ohm         R606         119-1031-15         1/10W 10k ohm         R928         119-3311-15         1/10W 330 ohm           R444         032-0144-51         1/8W 4.7k ohm         R607         119-1031-15         1/10W 10k ohm         R931 </td <td>R430</td> <td>032-0144-51</td> <td>1/8W 4.7k ohm J</td> <td>R535</td> <td>119-1021-15</td> <td>1/10W 1k ohm</td> <td>R920</td> <td>119-1021-15</td> <td>1/10W 1k ohm</td>	R430	032-0144-51	1/8W 4.7k ohm J	R535	119-1021-15	1/10W 1k ohm	R920	119-1021-15	1/10W 1k ohm
R433   032-0154-52   1/4W 4.7k ohm   R436   032-0144-51   1/8W 4.7k ohm   R436   032-0154-52   1/4W 4.7k ohm   R436   032-0154-52   1/4W 4.7k ohm   R436   032-0154-52   1/4W 4.7k ohm   R437   032-0154-52   1/4W 4.7k ohm   R438   032-0154-52   1/4W 4.7k ohm   R438   032-0154-52   1/4W 4.7k ohm   R439   032-0154-52   1/4W 4.7k ohm   R439   032-0154-52   1/4W 4.7k ohm   R440   032-0154-52   1/4W 4.7k ohm   R441   032-0154-52   1/4W 4.7k ohm   R441   032-0154-52   1/4W 4.7k ohm   R442   032-0144-51   1/8W 4.7k ohm   R444   032-0154-52   1/4W 4.7k ohm   R444   032-0154-52   1/4W 4.7k ohm   R445   032-0154-52   1/4W 4.7k ohm   R446   032-0154-52   1/4W 4.7k ohm   R448   032-0154-52   1/4W 4.7k ohm   R449   032-0154-52   1/4W 4.7k ohm   R447   032-0154-52   1/4W 4.7k ohm   R448   032-0154-52   1/4W 4.7k ohm   R449   032-0154-52   1/4W 4.7k ohm   R449   032-0154-52   1/4W 4.7k ohm   R447   032-0154-52   1/4W 4.7k ohm   R448   032-0154-52   1/4W 4.7k ohm   R449   032-0154-52   1/4W 4.7k ohm   R451   032-0144-51   1/8W 4.7k ohm   R451   032-0144-51   1/8W 4.7k ohm   R451   032-0144-51   1/8W 4.7k ohm   R452   032-0144-51   1/8W 5.6k ohm   R455   117-5621-15   1/8W 5.6k ohm   R455   117-5621-15   1/8W 5.6k ohm   R456   032-0144-51   1/8W 5.6k ohm   R456   032-0144-51   1/8W 5.6k ohm   R456   032-0144-51   1/8W 5.6k ohm   R456   032-0144-67   1/8W 18k ohm J R455   117-5621-15   1/8W 5.6k ohm   R456   032-0144-67   1/8W 18k ohm J R457   117-5621-15   1/8W 5.6k ohm   R626   119-1041-15   1/10W 100k ohm   R456   032-0144-67   1/8W 18k ohm J R457   117-5621-15   1/8W 5.6k ohm   R626   119-1041-15   1/10W 100k ohm   R456   117-5621-15   1/8W 5.6k ohm   R627   119-4721-15   1/10W 4.7k ohm   R628   119-5021-15   1/10W 4.7k ohm   R628   119-5021-15   1/10W 4.7k ohm   R626   119-1041-15   1/10W 100k ohm   R456   119-1031-15   1/10W 100k ohm   R456   119-1031-15   1/10W 10k ohm   R627   119-1031-15   1/10W 10k ohm   R456	R431	032-0144-51	1/8W 4.7k ohm J	R536	032-0144-64	1/8W 330 ohm J	R921	119-1021-15	1/10W 1k ohm
R434   032-0144-51   1/8W 4.7k ohm J R435   032-0144-51   1/8W 4.7k ohm J R436   032-0154-52   1/4W 4.7k ohm R438   032-0144-51   1/8W 4.7k ohm J R439   032-0144-51   1/8W 4.7k ohm J R439   032-0144-51   1/8W 4.7k ohm J R439   032-0144-51   1/8W 4.7k ohm J R440   032-0154-52   1/4W 4.7k ohm R441   032-0154-52   1/4W 4.7k ohm J R444   032-0154-52   1/4W 4.7k ohm J R444   032-0144-51   1/8W 4.7k ohm J R444   032-0144-51   1/8W 4.7k ohm J R444   032-0144-51   1/8W 4.7k ohm J R446   032-0144-51   1/8W 4.7k ohm R446   032-0144-51   1/8W 4.7k ohm R446   032-0144-51   1/8W 4.7k ohm J R446   032-0144-51   1/8W 4.7k ohm R447   032-0144-51   1/8W 4.7k ohm R448   032-0144-51   1/8W 4.7k ohm R449   032-0144-51   1/8W 4.7k ohm R450   032-0144-51   1/8W 4.7k ohm R614   119-1031-15   1/10W 10k ohm R450   032-0144-51   1/8W 4.7k ohm R614   119-3321-15   1/10W 3.3k ohm R450   032-0144-51   1/8W 4.7k ohm R614   119-3321-15   1/10W 3.3k ohm R936   119-1031-15   1/10W 10k ohm R937   119-1031-15   1/10W 10k ohm R938   119-1031-15   1/10W 10k ohm R936   119-1031-15   1/	R432	032-0154-52	1/4W 4.7k ohm	R538	119-1051-15	1/10W 1M ohm	R922	119-1021-15	1/10W 1k ohm
R435   032-0144-51   1/8W 4.7k ohm   R436   032-0154-52   1/4W 4.7k ohm   R602   119-4721-15   1/10W 4.7k ohm   R603   119-6801-15   1/10W 68 ohm   R926   119-3311-15   1/10W 330 ohm   R438   032-0144-51   1/8W 4.7k ohm   R604   119-1031-15   1/10W 10k ohm   R439   032-0154-52   1/4W 4.7k ohm   R606   119-5621-15   1/10W 10k ohm   R440   032-0154-52   1/4W 4.7k ohm   R606   119-5621-15   1/10W 10k ohm   R441   032-0154-52   1/4W 4.7k ohm   R607   119-1031-15   1/10W 10k ohm   R442   032-0144-51   1/8W 4.7k ohm   R608   116-1221-15   1/10W 10k ohm   R443   032-0144-51   1/8W 4.7k ohm   R608   119-1021-15   1/10W 10k ohm   R444   032-0154-52   1/4W 4.7k ohm   R609   119-1021-15   1/10W 1k ohm   R444   032-0154-52   1/4W 4.7k ohm   R610   119-1021-15   1/10W 1k ohm   R446   032-0144-51   1/8W 4.7k ohm   R611   119-1021-15   1/10W 1k ohm   R447   032-0144-51   1/8W 4.7k ohm   R611   119-1021-15   1/10W 1k ohm   R448   032-0144-51   1/8W 4.7k ohm   R613   119-4721-15   1/10W 1k ohm   R936   119-1031-15   1/10W 10k ohm   R937   119-1041-15   1/10W 10k ohm   R937   119-1041-15   1/10W 10k ohm   R937   119-1041-15   1/10W 10k ohm   R938   119-1041-15   1/10W 10k ohm   R936   119-1031-15   1/10W 10k ohm   R937   119-1031-15   1/10W 10k ohm   R938   119-1041-15   1/10W 10k ohm   R937   119-1031-15   1/10W 10k ohm   R938   119-1041-15   1/10W 10k ohm   R936   119-1031-15   1/10W 10k ohm   R936   119-1031-15   1/10W 10k ohm   R937   119-1031-15   1/10W 10k ohm   R936   119-1031-15   1/10W 10k ohm   R937   119-1041-15   1/10W 10k ohm   R936   119-1031-15   1/10W 10k ohm   R936   119-1031-15   1/10W 10k ohm   R936   119-1031-15   1/10W 10k ohm   R936   119-103	R433	032-0154-52	1/4W 4.7k ohm	R539	119-1051-15	1/10W 1M ohm	R923	119-5611-15	1/10W 560 ohm
R436   032-0154-52   1/4W 4.7k ohm   R437   032-0154-52   1/4W 4.7k ohm   R438   032-0144-51   1/8W 4.7k ohm   R604   119-1031-15   1/10W 10k ohm   R440   032-0154-52   1/4W 4.7k ohm   R605   119-1031-15   1/10W 10k ohm   R441   032-0154-52   1/4W 4.7k ohm   R606   119-5621-15   1/10W 10k ohm   R442   032-0144-51   1/8W 4.7k ohm   R606   119-5621-15   1/10W 10k ohm   R441   032-0154-52   1/4W 4.7k ohm   R606   119-1031-15   1/10W 10k ohm   R442   032-0144-51   1/8W 4.7k ohm   R607   119-1031-15   1/10W 10k ohm   R444   032-0154-52   1/4W 4.7k ohm   R609   119-1021-15   1/10W 10k ohm   R444   032-0154-52   1/4W 4.7k ohm   R610   119-1021-15   1/10W 1k ohm   R445   032-0154-52   1/4W 4.7k ohm   R611   119-1021-15   1/10W 1k ohm   R446   032-0144-51   1/8W 4.7k ohm   R611   119-1021-15   1/10W 1k ohm   R448   032-0144-51   1/8W 4.7k ohm   R613   119-4721-15   1/10W 1k ohm   R449   032-0144-51   1/8W 4.7k ohm   R613   119-3321-15   1/10W 3.3k ohm   R449   032-0144-51   1/8W 4.7k ohm   R614   119-3321-15   1/10W 3.3k ohm   R449   032-0144-51   1/8W 4.7k ohm   R614   119-3321-15   1/10W 3.3k ohm   R450   032-0144-51   1/8W 4.7k ohm   R615   119-3321-15   1/10W 3.3k ohm   R450   032-0144-51   1/8W 4.7k ohm   R614   119-3321-15   1/10W 3.3k ohm   R450   032-0144-51   1/8W 4.7k ohm   R616   119-3311-15   1/10W 3.3k ohm   R615   119-3321-15   1/10W 3.3k ohm   R615   119-3321-15   1/10W 3.3k ohm   R616   119-3311-15   1/10W 10k ohm   R617   1/10W 10k ohm   R618   119-1031-15   1/10W 10k ohm   R622   119-2331-15   1/10W 10k ohm   R625   119-1041-15   1/10W 10k ohm   R626   119-1041-15   1/10W 10k ohm   R626   119-1041-15   1/10W 10k ohm   R627   119-4731-15   1/10W 47k ohm   R628   119-4731-15   1/10W 47k ohm   R629   119-4731-15   1/10W 4.7k ohm   R629   119-4721-15   1/10W 4.7k ohm   R629   119-	R434	032-0144-51	1/8W 4.7k ohm J	R600	119-3321-15	1/10W 3.3k ohm	R924	119-1031-15	1/10W 10k ohm
R437         032-0154-52         1/4W 4.7k ohm         R603         119-6801-15         1/10W 68 ohm         R927         119-3311-15         1/10W 330 ohm           R438         032-0144-51         1/8W 4.7k ohm J         R604         119-1031-15         1/10W 10k ohm         R928         119-3311-15         1/10W 330 ohm           R440         032-0154-52         1/4W 4.7k ohm         R605         119-1031-15         1/10W 10k ohm         R929         119-3311-15         1/10W 330 ohm           R441         032-0154-52         1/4W 4.7k ohm         R607         119-1031-15         1/10W 10k ohm         R930         119-5621-15         1/10W 330 ohm           R442         032-0144-51         1/8W 4.7k ohm J         R608         119-1021-15         1/10W 10k ohm         R930         119-5621-15         1/10W 330 ohm           R443         032-0144-51         1/8W 4.7k ohm         R608         116-1221-15         1/4W 1.2k ohm         R931         119-3311-15         1/10W 330 ohm           R445         032-0154-52         1/4W 4.7k ohm         R609         119-1021-15         1/10W 1k ohm         R931         119-3311-15         1/10W 10k ohm         R932         119-1041-15         1/10W 10k ohm         R932         119-1041-15         1/10W 10k ohm         R932 <td< td=""><td>R435</td><td>032-0144-51</td><td>1/8W 4.7k ohm J</td><td>R601</td><td>119-4731-15</td><td>1/10W 47k ohm</td><td>R925</td><td>119-2711-15</td><td>1/10W 270 ohm</td></td<>	R435	032-0144-51	1/8W 4.7k ohm J	R601	119-4731-15	1/10W 47k ohm	R925	119-2711-15	1/10W 270 ohm
R438         032-0144-51         1/8W 4.7k ohm J         R604         119-1031-15         1/10W 10k ohm         R928         119-3311-15         1/10W 330 ohm           R449         032-0144-51         1/8W 4.7k ohm J         R605         119-1031-15         1/10W 10k ohm         R929         119-3311-15         1/10W 330 ohm           R441         032-0154-52         1/4W 4.7k ohm         R606         119-1031-15         1/10W 10k ohm         R930         119-5621-15         1/10W 330 ohm           R443         032-0144-51         1/8W 4.7k ohm J         R608         118-1221-15         1/10W 10k ohm         R931         119-3311-15         1/10W 330 ohm           R444         032-0144-51         1/8W 4.7k ohm J         R608         118-1221-15         1/10W 1k ohm         R931         119-3311-15         1/10W 10k ohm           R445         032-0154-52         1/4W 4.7k ohm         R609         119-1021-15         1/10W 1k ohm         R932         119-1041-15         1/10W 10k ohm           R446         032-0144-51         1/8W 4.7k ohm J         R611         119-1021-15         1/10W 1k ohm         R935         119-1041-15         1/10W 10k ohm           R448         032-0144-51         1/8W 4.7k ohm         R612         119-1021-15         1/10W 10k ohm         <	R436	032-0154-52	1/4W 4.7k ohm	R602	119-4721-15	1/10W 4.7k ohm	R926	119-3311-15	1/10W 330 ohm
R439	R437	032-0154-52	1/4W 4.7k ohm	R603	119-6801-15	1/10W 68 ohm	R927	119-3311-15	1/10W 330 ohm
R440         032-0154-52         1/4W 4.7k ohm         R606         119-5621-15         1/10W 5.6k ohm         R930         119-5621-15         1/10W 5.6k ohm           R441         032-0154-52         1/4W 4.7k ohm         R607         119-1031-15         1/10W 10k ohm         R931         119-3311-15         1/10W 330 ohm           R442         032-0154-52         1/8W 4.7k ohm J         R608         119-1021-15         1/10W 10k ohm         R931         119-3311-15         1/10W 330 ohm           R443         032-0154-52         1/4W 4.7k ohm         R609         119-1021-15         1/10W 1k ohm         R932         119-1041-15         1/10W 10k ohm           R445         032-0154-52         1/4W 4.7k ohm         R610         119-1021-15         1/10W 1k ohm         R932         119-1041-15         1/10W 10k ohm           R446         032-0154-52         1/4W 4.7k ohm J         R611         119-1021-15         1/10W 1k ohm         R935         119-1021-15         1/10W 1.5k ohm           R447         032-0144-51         1/8W 4.7k ohm J         R613         119-4721-15         1/10W 1k ohm         R936         119-1021-15         1/10W 10k ohm           R450         032-0144-51         1/8W 4.7k ohm J         R613         119-4721-15         1/10W 3.3k ohm	R438	032-0144-51	1/8W 4.7k ohm J	R604	119-1031-15	1/10W 10k ohm	R928	119-3311-15	1/10W 330 ohm
R441         032-0154-52         1/4W 4.7k ohm         R607         119-1031-15         1/10W 10k ohm         R931         119-3311-15         1/10W 330 ohm           R442         032-0144-51         1/8W 4.7k ohm J         R608         116-1221-15         1/4W 1.2k ohm         R932         119-1041-15         1/10W 10k ohm           R444         032-0154-52         1/4W 4.7k ohm         R609         119-1021-15         1/10W 1k ohm         R934         119-1041-15         1/10W 10k ohm           R445         032-0154-52         1/4W 4.7k ohm         R610         119-1021-15         1/10W 1k ohm         R935         119-1041-15         1/10W 10k ohm           R446         032-0144-51         1/8W 4.7k ohm J         R611         119-1021-15         1/10W 1k ohm         R936         119-1021-15         1/10W 1.2k ohm           R447         032-0144-51         1/8W 4.7k ohm J         R612         119-1021-15         1/10W 1k ohm         R936         119-1041-15         1/10W 1.2k ohm           R448         032-0154-52         1/4W 4.7k ohm J         R613         119-1021-15         1/10W 4.7k ohm         R937         119-1041-15         1/10W 10k ohm           R450         032-0144-51         1/8W 4.7k ohm J         R613         119-3321-15         1/10W 3.3k ohm	R439	032-0144-51	1/8W 4.7k ohm J	R605	119-1031-15	1/10W 10k ohm	R929	119-3311-15	1/10W 330 ohm
R442         032-0144-51         1/8W 4.7k ohm J         R608         116-1221-15         1/4W 1.2k ohm         R932         119-1041-15         1/10W 100k ohm           R443         032-0144-51         1/8W 4.7k ohm J         R609         119-1021-15         1/10W 1k ohm         R934         119-1041-15         1/10W 100k ohm           R444         032-0154-52         1/4W 4.7k ohm         R610         119-1021-15         1/10W 1k ohm         R935         119-1041-15         1/10W 1.2k ohm           R445         032-0144-51         1/8W 4.7k ohm J         R611         119-1021-15         1/10W 1k ohm         R936         119-1021-15         1/10W 1.2k ohm           R447         032-0144-51         1/8W 4.7k ohm J         R612         119-1021-15         1/10W 1k ohm         R936         119-1041-15         1/10W 1.5k ohm           R448         032-0154-52         1/4W 4.7k ohm         R613         119-4721-15         1/10W 4.7k ohm         R937         119-1041-15         1/10W 10k ohm           R450         032-0144-51         1/8W 4.7k ohm J         R614         119-3321-15         1/10W 3.3k ohm         R945         119-1031-15         1/10W 10k ohm           R451         032-0144-51         1/8W 4.7k ohm J         R618         119-1031-15         1/10W 10k ohm	R440	032-0154-52	1/4W 4.7k ohm	R606	119-5621-15	1/10W 5.6k ohm	R930	119-5621-15	1/10W 5.6k ohm
R443         032-0144-51         1/8W 4.7k ohm J         R609         119-1021-15         1/10W 1k ohm         R934         119-1041-15         1/10W 100k ohm           R444         032-0154-52         1/4W 4.7k ohm         R610         119-1021-15         1/10W 1k ohm         R935         119-1021-15         1/10W 1.2k ohm           R445         032-0144-51         1/8W 4.7k ohm J         R611         119-1021-15         1/10W 1k ohm         R936         119-1521-15         1/10W 1.5k ohm           R447         032-0144-51         1/8W 4.7k ohm J         R612         119-1021-15         1/10W 1k ohm         R936         119-1521-15         1/10W 1.5k ohm           R448         032-0154-52         1/4W 4.7k ohm         R613         119-4721-15         1/10W 1k ohm         R936         119-1521-15         1/10W 1.5k ohm           R449         032-0154-52         1/4W 4.7k ohm         R614         119-3321-15         1/10W 3.3k ohm         R938         119-1041-15         1/10W 10k ohm           R450         032-0144-51         1/8W 4.7k ohm J         R615         119-3321-15         1/10W 3.3k ohm         R945         119-1031-15         1/10W 10k ohm           R452         032-0144-51         1/8W 4.7k ohm         R617         119-1031-15         1/10W 10k ohm				R607	119-1031-15	1/10W 10k ohm	R931	119-3311-15	1/10W 330 ohm
R444       032-0154-52       1/4W 4.7k ohm       R610       119-1021-15       1/10W 1k ohm       R935       119-1221-15       1/10W 1.2k ohm         R445       032-0154-52       1/4W 4.7k ohm       R611       119-1021-15       1/10W 1k ohm       R935       119-1221-15       1/10W 1.2k ohm         R446       032-0144-51       1/8W 4.7k ohm J       R612       119-1021-15       1/10W 1k ohm       R935       119-1221-15       1/10W 1.2k ohm         R447       032-0144-51       1/8W 4.7k ohm J       R613       119-1021-15       1/10W 1k ohm       R936       119-1021-15       1/10W 10k ohm         R448       032-0154-52       1/4W 4.7k ohm       R613       119-4721-15       1/10W 4.7k ohm       R613       119-3321-15       1/10W 3.3k ohm       R938       119-1041-15       1/10W 10k ohm         R450       032-0144-51       1/8W 4.7k ohm J       R616       119-3321-15       1/10W 3.3k ohm       R945       119-1031-15       1/10W 10k ohm         R452       032-0154-52       1/4W 4.7k ohm       R617       119-1031-15       1/10W 10k ohm       R618       119-1031-15       1/10W 10k ohm       R947       119-1031-15       1/10W 10k ohm         R453       032-0144-67       1/8W 18k ohm J       R622       119-1041-15       1/	R442	032-0144-51	1/8W 4.7k ohm J	R608	116-1221-15	1/4W 1.2k ohm	R932	119-1041-15	1/10W 100k ohm
R445         032-0154-52   1/4W 4.7k ohm         R446         032-0144-51   1/8W 4.7k ohm J R447         R611   119-1021-15   1/10W 1k ohm         R936   119-1521-15   1/10W 1.5k ohm         R937   119-1041-15   1/10W 100k ohm         R938   119-1041-15   1/10W 10k ohm         R937   119-1041-15   1/10W 100k ohm         R938   119-1041-15   1/10W 100k ohm         R938   119-1041-15   1/10W 10k ohm         R945   119-1031-15   1/10W 10k ohm         R945   119-1031-15   1/10W 10k ohm         R946   119-1031-15   1/10W 10k ohm         R947   119-1031-15   1/10W 10k ohm         R948	R443	032-0144-51	1/8W 4.7k ohm J	R609	119-1021-15	1/10W 1k ohm	R934	119-1041-15	1/10W 100k ohm
R446 032-0144-51 1/8W 4.7k ohm J R447 032-0144-51 1/8W 4.7k ohm J R448 032-0154-52 1/4W 4.7k ohm R449 032-0154-52 1/4W 4.7k ohm R450 032-0144-51 1/8W 4.7k ohm J R451 032-0144-51 1/8W 4.7k ohm J R452 032-0154-52 1/4W 4.7k ohm J R453 032-0154-52 1/4W 4.7k ohm J R454 117-5621-15 1/8W 5.6k ohm R455 117-5621-15 1/8W 5.6k ohm R456 032-0144-67 1/8W 18k ohm J R457 032-0144-67 1/8W 18k ohm J R458 117-5621-15 1/8W 5.6k ohm R459 117-5621-15 1/8W 5.6k ohm R459 117-5621-15 1/8W 5.6k ohm R459 117-5021-15 1/10W 10k ohm R458 117-10W 10k ohm R459 117-10W 10k ohm	R444	032-0154-52	1/4W 4.7k ohm	R610	119-1021-15	1/10W 1k ohm	R935	119-1221-15	1/10W 1.2k ohm
R447 032-0144-51 1/8W 4.7k ohm J R448 032-0154-52 1/4W 4.7k ohm R449 032-0154-52 1/4W 4.7k ohm R450 032-0144-51 1/8W 4.7k ohm J R451 032-0144-51 1/8W 4.7k ohm J R452 032-0154-52 1/4W 4.7k ohm J R453 032-0154-52 1/4W 4.7k ohm J R454 117-5621-15 1/8W 5.6k ohm R455 117-5621-15 1/8W 5.6k ohm R456 032-0144-67 1/8W 18k ohm J R457 032-0144-67 1/8W 18k ohm J R458 117-5621-15 1/8W 5.6k ohm R458 117-5021-15 1/10W 4.7k ohm R458 1	R445	032-0154-52	1/4W 4.7k ohm	R611	119-1021-15	1/10W 1k ohm	R936	119-1521-15	1/10W 1.5k ohm
R448   032-0154-52   1/4W 4.7k ohm   R449   032-0154-52   1/4W 4.7k ohm   R450   032-0144-51   1/8W 4.7k ohm   R451   032-0144-51   1/8W 4.7k ohm   R452   032-0154-52   1/4W 4.7k ohm   R453   032-0154-52   1/4W 4.7k ohm   R454   117-5621-15   1/8W 18k ohm   R455   117-5621-15   1/8W 5.6k ohm   R456   032-0144-67   1/8W 18k ohm   R457   032-0144-67   1/8W 18k ohm   R458   117-5621-15   1/8W 5.6k ohm   R458   117-4031-15   1/10W 3.3k ohm   R4615   1/10W 3.3k ohm   R4616   119-1031-15   1/10W 3.3k ohm   R4617   1/10W 3.3k ohm   R4617   1/10W 10k ohm	R446	032-0144-51	1/8W 4.7k ohm J	R612	119-1021-15	1/10W 1k ohm	R937	119-1041-15	1/10W 100k ohm
R449 032-0154-52 1/4W 4.7k ohm R450 032-0144-51 1/8W 4.7k ohm J R451 032-0144-51 1/8W 4.7k ohm J R452 032-0154-52 1/4W 4.7k ohm R453 032-0154-52 1/4W 4.7k ohm R454 117-5621-15 1/8W 5.6k ohm R455 117-5621-15 1/8W 5.6k ohm R456 032-0144-67 1/8W 18k ohm J R457 032-0144-67 1/8W 18k ohm J R458 117-5621-15 1/8W 5.6k ohm R458 117-5621-15 1/8W 5.6k ohm R458 117-5621-15 1/8W 5.6k ohm R629 119-4731-15 1/10W 4.7k ohm R629 119-4721-15 1/10W 4.7k ohm R629 119-4721-15 1/10W 4.7k ohm R629 119-4721-15 1/10W 4.7k ohm R620 119-1031-15 1/10W 10k ohm R620 119-1031-15 1/10	R447	032-0144-51	1/8W 4.7k ohm J	R613	119-4721-15	1/10W 4.7k ohm	R938		
R450 032-0144-51 1/8W 4.7k ohm J R451 032-0144-51 1/8W 4.7k ohm J R452 032-0154-52 1/4W 4.7k ohm J R453 032-0144-67 1/8W 18k ohm J R455 117-5621-15 1/8W 5.6k ohm R456 032-0144-67 1/8W 18k ohm J R457 032-0144-67 1/8W 18k ohm J R458 117-5621-15 1/8W 5.6k ohm R458 117-5621-15 1/8W 5.6k ohm R458 117-5621-15 1/8W 5.6k ohm R629 119-4721-15 1/10W 4.7k ohm R620 119-1041-15 1/10W 4.7k ohm R629 119-4721-15 1/10W 4.7k ohm R620 119-4721-15 1/10W 4.7k ohm R629 119-4721-15 1/10W 4.7k ohm R620 119-4721-15 1/10W 4.7k ohm	R448	032-0154-52	1/4W 4.7k ohm	R614	119-3321-15	1/10W 3.3k ohm	R945		
R451 032-0144-51 1/8W 4.7k ohm J R452 032-0154-52 1/4W 4.7k ohm J R453 032-0144-67 1/8W 18k ohm J R455 117-5621-15 1/8W 5.6k ohm R456 032-0144-67 1/8W 18k ohm J R457 032-0144-67 1/8W 18k ohm J R458 117-5621-15 1/8W 5.6k ohm R458 117-5621-15 1/8W 5.6k ohm R629 119-4731-15 1/10W 4.7k ohm R629 119-4721-15 1/10W 4.7k ohm	R449	032-0154-52	1/4W 4.7k ohm	R615	119-3321-15	1/10W 3.3k ohm		119-1031-15	1/10W 10k ohm
R452   032-0154-52   1/4W 4.7k ohm   R453   032-0144-67   1/8W 18k ohm J   R454   117-5621-15   1/8W 5.6k ohm   R455   117-5621-15   1/8W 5.6k ohm   R456   032-0144-67   1/8W 18k ohm J   R457   032-0144-67   1/8W 18k ohm J   R458   117-5621-15   1/8W 5.6k ohm   R458   117-5621-15   1/8W 5.6k ohm   R458   117-5621-15   1/8W 5.6k ohm   R459   119-4731-15   1/10W 47k ohm   R458   117-5621-15   1/8W 5.6k ohm   R459   119-4721-15   1/10W 4.7k ohm   R4	R450	032-0144-51	1/8W 4.7k ohm J	R616	119-3311-15	1/10W 330 ohm	R947	119-1031-15	1/10W 10k ohm
R453   032-0144-67   1/8W 18k ohm J   R454   117-5621-15   1/8W 5.6k ohm   R455   117-5621-15   1/8W 5.6k ohm   R456   032-0144-67   1/8W 18k ohm J   R457   032-0144-67   1/8W 18k ohm J   R458   117-5621-15   1/8W 5.6k ohm   R629   119-4731-15   1/10W 10k ohm   R629   119-4721-15   1/10W 47k ohm   R629   119-4721-15   1/10W 47k ohm   R629   119-4721-15   1/10W 4.7k ohm				R617					
R454   117-5621-15   1/8W 5.6k ohm   R455   117-5621-15   1/8W 5.6k ohm   R456   032-0144-67   1/8W 18k ohm J R457   032-0144-67   1/8W 18k ohm J R458   117-5621-15   1/8W 5.6k ohm   R629   119-4731-15   1/10W 100k ohm   R629   119-4731-15   1/10W 47k ohm   R629   119-4721-15   1/10W 47k ohm   R629   119-4721-15   1/10W 4.7k ohm   R62		032-0154-52	1/4W 4.7k ohm		119-1031-15	1/10W 10k ohm		061-1066-00	7.2MHz
R455   117-5621-15   1/8W 5.6k ohm   R626   119-1041-15   1/10W 100k ohm   R456   032-0144-67   1/8W 18k ohm J   R627   119-4731-15   1/10W 47k ohm   R457   032-0144-67   1/8W 18k ohm J   R628   119-4731-15   1/10W 47k ohm   R629   119-4721-15   1/10W 4.7k ohm   R629   1/10W 4.7k o				1					
R456   032-0144-67   1/8W 18k ohm J   R627   119-4731-15   1/10W 47k ohm   PWB   039-2566-00   PWB(WITHOUT COMPONENT)   R458   117-5621-15   1/8W 5.6k ohm   R629   119-4721-15   1/10W 4.7k ohm   R629   1/10W 4.7k ohm	R454	117-5621-15	1/8W 5.6k ohm	R625	119-1041-15	1/10W 100k ohm		060-0100-51	BUZZER
R457   032-0144-67   1/8W 18k ohm J   R628   119-4731-15   1/10W 47k ohm   COMPONENT)   R458   117-5621-15   1/8W 5.6k ohm   R629   119-4721-15   1/10W 4.7k ohm   COMPONENT)	R455	117-5621-15	1/8W 5.6k ohm	R626	119-1041-15	1/10W 100k ohm	X901	061-3542-90	18.432MHz
R458   117-5621-15   1/8W 5.6k ohm   R629   119-4721-15   1/10W 4.7k ohm	R456	032-0144-67	1/8W 18k ohm J				PWB	039-2566-00	PWB(WITHOUT
	R457	032-0144-67	1/8W 18k ohm J		119-4731-15	1/10W 47k ohm			COMPONENT)
TR459     117-5621-15   1/8W 5 6k ohm		117-5621-15	1/8W 5.6k ohm	R629					
11. 332 10 1/044 0.0K 0.0K 0.0K 1 110 0000 00 1/1044 0 0000 04 11	R459	117-5621-15	1/8W 5.6k ohm	R633	119-0000-05	1/10W 0 ohm JW			

# Switch PWB(B2) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C703	042-0423-97	16V10uF	D716	001-7040-91	NSCW100-T	D752	001-0516-90	MA111
C706	168-1042-78	16V 0.1uF	D718	001-0529-14	MA8030-L	D753	001-0516-90	MA111
C707	042-0423-97	16V10uF	D719	001-0584-15	MA8036	D754	001-0516-90	MA111
C709	168-1032-55	0.01uF	D720	001-0584-23	MA8075	FL701	379-4053-28	VFD
C710	168-1032-55	0.01uF	D721	001-0584-23	MA8075	IC701	051-6643-90	M66010GP-201D
C711	168-1042-78	16V 0.1uF	D722	001-0584-23	MA8075	IR701	060-4017-90	IR RECEIVER
D702	001-7048-91	RFR1112H-22-TR	D723	001-0584-23	MA8075	J702	074-1105-22	SOCKET(22P)
D703	001-7048-91	RFR1112H-22-TR	D724	001-7040-91	NSCW100-T	L701	010-3406-66	22uH
D704	001-7048-91	RFR1112H-22-TR	D725	001-7040-91	NSCW100-T	Q207	192-2873-00	2SC2873
D705	001-7048-91	RFR1112H-22-TR	D726	001-0584-23	MA8075	R705	119-6811-15	1/10W 680 ohm
D706	001-7048-91	RFR1112H-22-TR	D727	001-0584-23	MA8075	R706	119-6811-15	1/10W 680 ohm
D707	001-7048-91	RFR1112H-22-TR	D728	001-0584-23	MA8075	R707	119-6811-15	1/10W 680 ohm
D712	001-7078-90	NSCW505T	D729	001-0584-23	MA8075	R708	119-6811-15	1/10W 680 ohm
D714	001-7078-90	NSCW505T	D730	001-0584-23	MA8075	R709	119-6811-15	1/10W 680 ohm
D715	001-7040-91	NSCW100-T	D751	001-0516-90	MA111	R710	119-6811-15	1/10W 680 ohm

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DRZ9255 HX-D2

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R711	119-4711-15	1/10W 470 ohm	R730	119-2201-15	1/10W 22 ohm	S705	013-6312-50	SKRP-ABE-010
R714	119-4721-15	1/10W 4.7k ohm	R760	119-3921-15	1/10W 3.9k ohm	S706	013-6305-50	SKQMAH
R715	119-4721-15	1/10W 4.7k ohm	R761	119-1041-15	1/10W 100k ohm	S707	013-6305-50	SKQMAH
R716	119-1031-15	1/10W 10k ohm	R762	119-1011-15	1/10W 100 ohm	S708	013-6312-50	SKRP-ABE-010
R717	119-4711-15	1/10W 470 ohm	R771	119-1031-15	1/10W 10k ohm	S709	013-6305-50	SKQMAH
R718	119-4711-15	1/10W 470 ohm	R772	119-1031-15	1/10W 10k ohm	S710	013-6305-50	SKQMAH
R719	119-4711-15	1/10W 470 ohm	R773	119-1031-15	1/10W 10k ohm	S711	013-6312-50	SKRP-ABE-010
R720	119-5611-15	1/10W 560 ohm	R774	119-1031-15	1/10W 10k ohm	S712	013-6312-50	SKRP-ABE-010
R721	119-4711-15	1/10W 470 ohm	R776	119-1041-15	1/10W 100k ohm	S713	013-6305-50	SKQMAH
R722	119-4711-15	1/10W 470 ohm	R777	119-1041-15	1/10W 100k ohm	S714	013-6305-50	SKQMAH
R723	119-4711-15	1/10W 470 ohm	R778	119-1041-15	1/10W 100k ohm	S715	013-6312-50	SKRP-ABE-010
R724	119-4711-15	1/10W 470 ohm	R779	119-1041-15	1/10W 100k ohm	S716	013-6312-50	SKRP-ABE-010
R725	119-4711-15	1/10W 470 ohm	S701	013-6312-50	SKRP-ABE-010	S717	013-6312-50	SKRP-ABE-010
R726	119-4711-15	1/10W 470 ohm	S702	013-6312-50	SKRP-ABE-010	S718	016-0025-00	VR W/SHAFT
R727	119-4711-15	1/10W 470 ohm	S703	013-6312-50	SKRP-ABE-010	PWB	039-2567-00	PWB(WITHOUT
R728	119-4711-15	1/10W 470 ohm	S704	013-6312-50	SKRP-ABE-010			COMPONENT)

# DC/DC PWB(B3) section

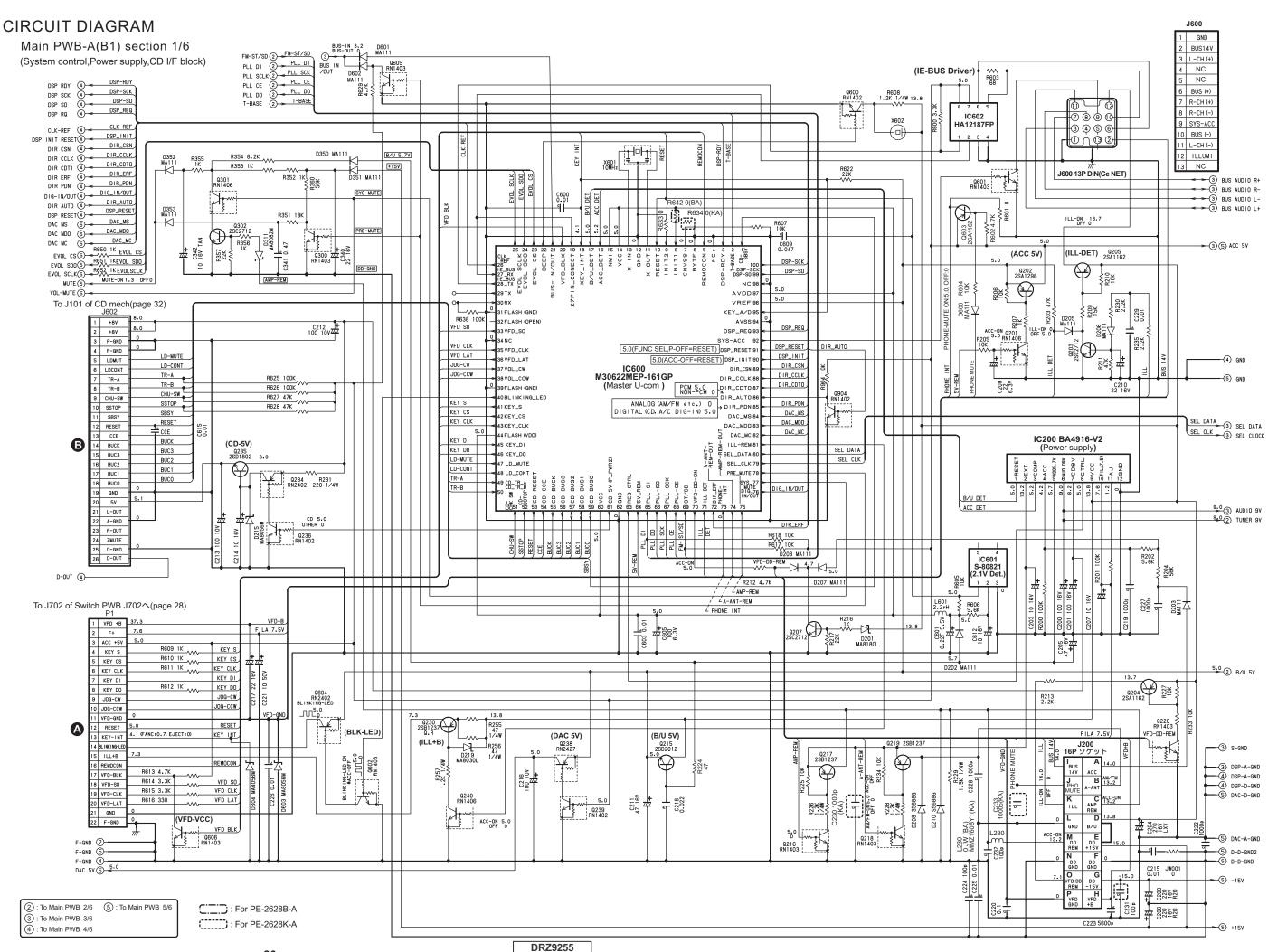
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C202	042-1393-00	35V100uF	C265	042-1676-00	16V470uF	L253	010-8028-00	520uH
C205	042-9134-00	63V47uF	D250	001-0188-01	1S1885A	L254	010-8028-00	520uH
C206	042-9134-00	63V47uF	D251	001-4003-00	ZSA5A27	Q205	191-1243-00	2SB1243
C216	172-1031-15	0.01uF	D252	001-0466-91	S5688G	Q206	192-2458-00	2SC2458
C250	042-1676-00	16V470uF	F201	060-8049-01	FUSE 0.5A	Q251	192-2458-00	2SC2458
C252	043-0251-10	0.1uF	FR251	060-0057-54	FUSE 5A	R213	111-2221-94	1/4W 2.2k ohm
C254	042-1677-00	35V1000uF	IC202	060-6026-00	DC-DC CONV	R214	111-1031-94	1/4W 10k ohm
C256	043-0251-10	0.1uF	IC250	060-6008-00	HMA-1570-2492	R215	111-1521-94	1/4W 1.5k ohm
C258	187-1063-37	16V10uF	J250	073-0722-01	10P	R216	111-8221-94	1/4W 8.2k ohm
C259	042-9129-00	16V270uF	J251	074-0884-02	OUTLET SOCKET	R217	114-3311-11	1W 330 ohm
C260	042-1548-03	16V100uF	L201	010-6009-88	220uH	R222	111-1031-94	1/4W 10k ohm
C261	042-1548-03	16V100uF	L202	010-2165-05	150uH	R253	111-1031-94	1/4W 10k ohm
C262	042-1504-05	16V22uF	L250	010-2303-00	20uH	R254	111-4721-94	1/4W 4.7k ohm
C263	042-1504-05	16V22uF	L251	010-2303-00	20uH	PWB	039-2568-00	PWB(WITHOUT
C264	042-1676-00	16V470uF	L252	010-2326-00	BL02RN2-R62			COMPONENT)

# CD PWB(B4) section

00 1 11	755 1 WB(B+) Section										
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION			
C1	168-1042-78	16V 0.1uF	C35	046-6812-58	680pF	R2	117-1001-15	1/8W 10 ohm			
C3	163-2273-05	4V220uF	C36	168-1042-78	16V 0.1uF	R9	033-2211-15	1/10W 220 ohm			
C4	168-1042-78	16V 0.1uF	C37	168-1042-78	16V 0.1uF	R11	033-1051-15	1/10W 1M ohm			
C5	163-1073-35	16V100uF	C38	046-1522-58	1500pF	R12	119-2221-15	1/10W 2.2k ohm			
C6	163-1073-35	16V100uF	C39	046-4722-58	4700pF	R13	033-2211-15	1/10W 220 ohm			
C7	168-1042-78	16V 0.1uF	C40	046-1032-78	0.01uF	R14	033-2211-15	1/10W 220 ohm			
C9	178-1052-78	1uF	C41	046-1532-78	0.015uF	R16	033-2231-15	1/10W 22k ohm			
C10	042-0560-85	6.3V100uF	C43	168-1042-78	16V 0.1uF	R17	033-1011-15	1/10W 100 ohm			
C11	046-4712-58	470pF	C45	045-6097-50	6pF	R18	033-3341-15	1/10W 330k ohm			
C12	178-1052-78	1uF	C47	045-4701-50	47pF	R19	033-5621-15	1/10W 5.6k ohm			
C13	046-4712-58	470pF	C48	168-1042-78	16V 0.1uF	R21	033-2231-15	1/10W 22k ohm			
C15	168-1042-78	16V 0.1uF	C49	168-1042-78	16V 0.1uF	R22	033-4731-15	1/10W 47k ohm			
C16	168-4732-78	0.047uF	C50	042-0666-00	12.5V 22uF	R24	033-1041-15	1/10W 100k ohm			
C17	168-4732-78	0.047uF	C51	046-5622-58	5600pF	R26	033-1531-15	1/10W 15k ohm			
C18	168-1042-78	16V 0.1uF	C52	178-1052-78	1uF	R27	033-4731-15	1/10W 47k ohm			
C19	168-1042-78		C53	045-1007-50	10pF	R28	033-1831-15	1/10W 18k ohm			
C21	046-6822-58	6800pF	C54	045-1007-50	10pF	R29	033-6821-15	1/10W 6.8k ohm			
C22	046-3332-78	0.033uF	C55	178-1052-78	1uF	R30	033-8231-15	1/10W 82k ohm			
C24	178-1052-78	1uF	CCT2	050-0140-63	1/32W 47k ohm x4J	R31	033-8231-15	1/10W 82k ohm			
C25	168-1042-78	16V 0.1uF	D1	001-0367-91	1SS226	R32	119-1001-15	1/10W 10 ohm			
C26	168-1042-78	16V 0.1uF	IC1	051-6071-08	BA5825FP-E2	R33	033-2731-15	1/10W 27k ohm			
C28	168-1042-78	16V 0.1uF	IC2	051-6399-00	TC94A15F	R34	033-2731-15	1/10W 27k ohm			
C29	168-1042-78		J101	074-1228-76	26P	R35	033-2731-15	1/10W 27k ohm			
C30	045-6801-50	68pF	J201	074-1138-65	15P	R36	033-2731-15	1/10W 27k ohm			
C31	168-1042-78	16V 0.1uF	J301	074-1138-60		R37	032-0162-50	1/10W 0.51 ohm			
C32	168-1042-78	16V 0.1uF	Q1		2SB1188PQR	X2	061-3534-90	16.92MHz			
C33	046-1532-78		Q2	131-1188-50	2SB1188PQR	PWB	039-2435-20	PWB(WITHOUT			
C34	168-1042-78	16V 0.1uF	R1	117-6811-15	1/8W 680 ohm			COMPONENT)			

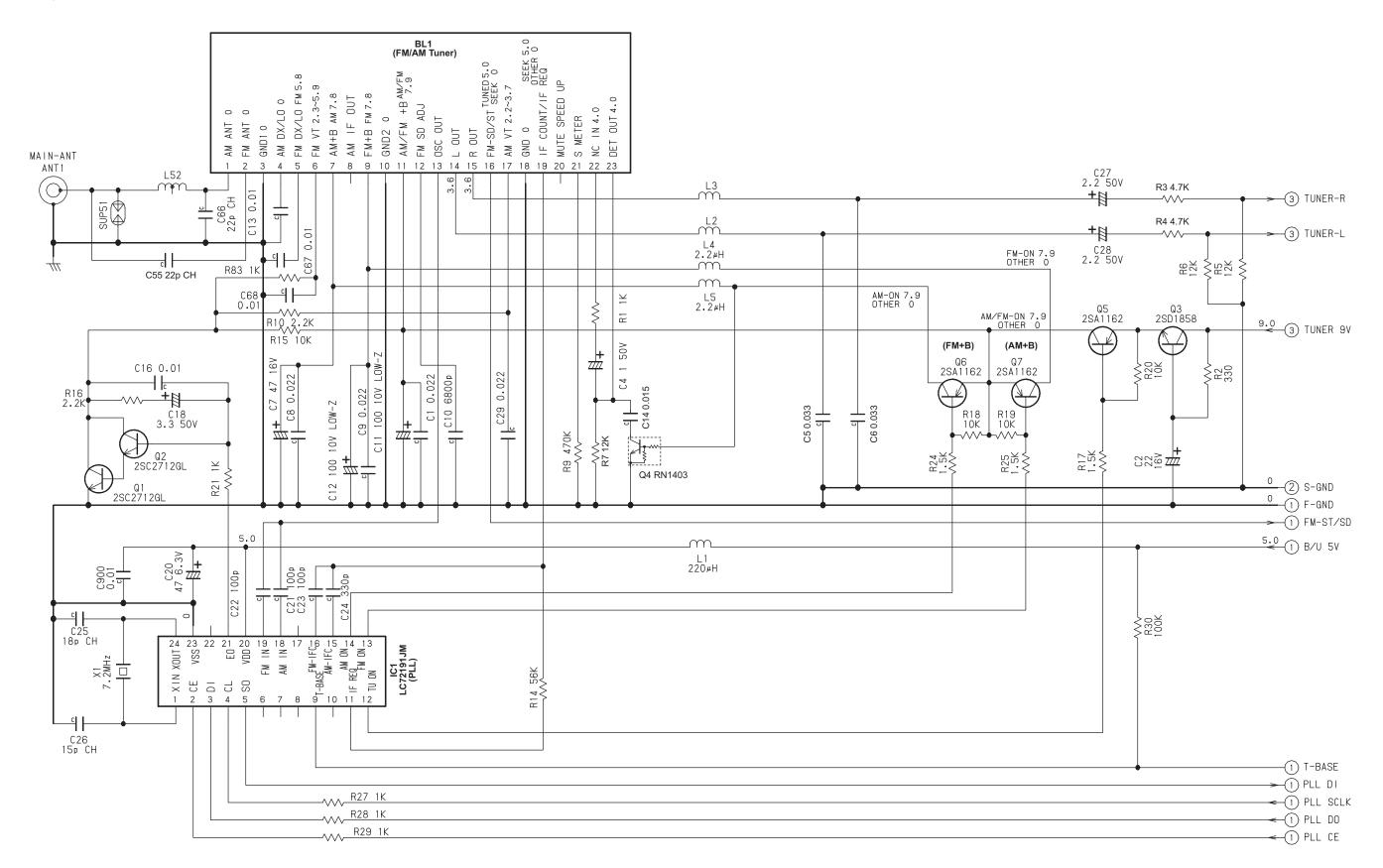
# LED PWB(B5)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
D1	001-7058-90	AN1105W-RR	Q1	060-4015-90	PS1192H	S2	013-7413-50	LIMIT
D2	001-7058-90	AN1105W-RR	Q2	060-4015-90	PS1192H	PWB	039-1944-21	PWB(WITHOUT
J1	074-1138-60	10P	S1	013-7414-50	CHUCKING			COMPONENT)



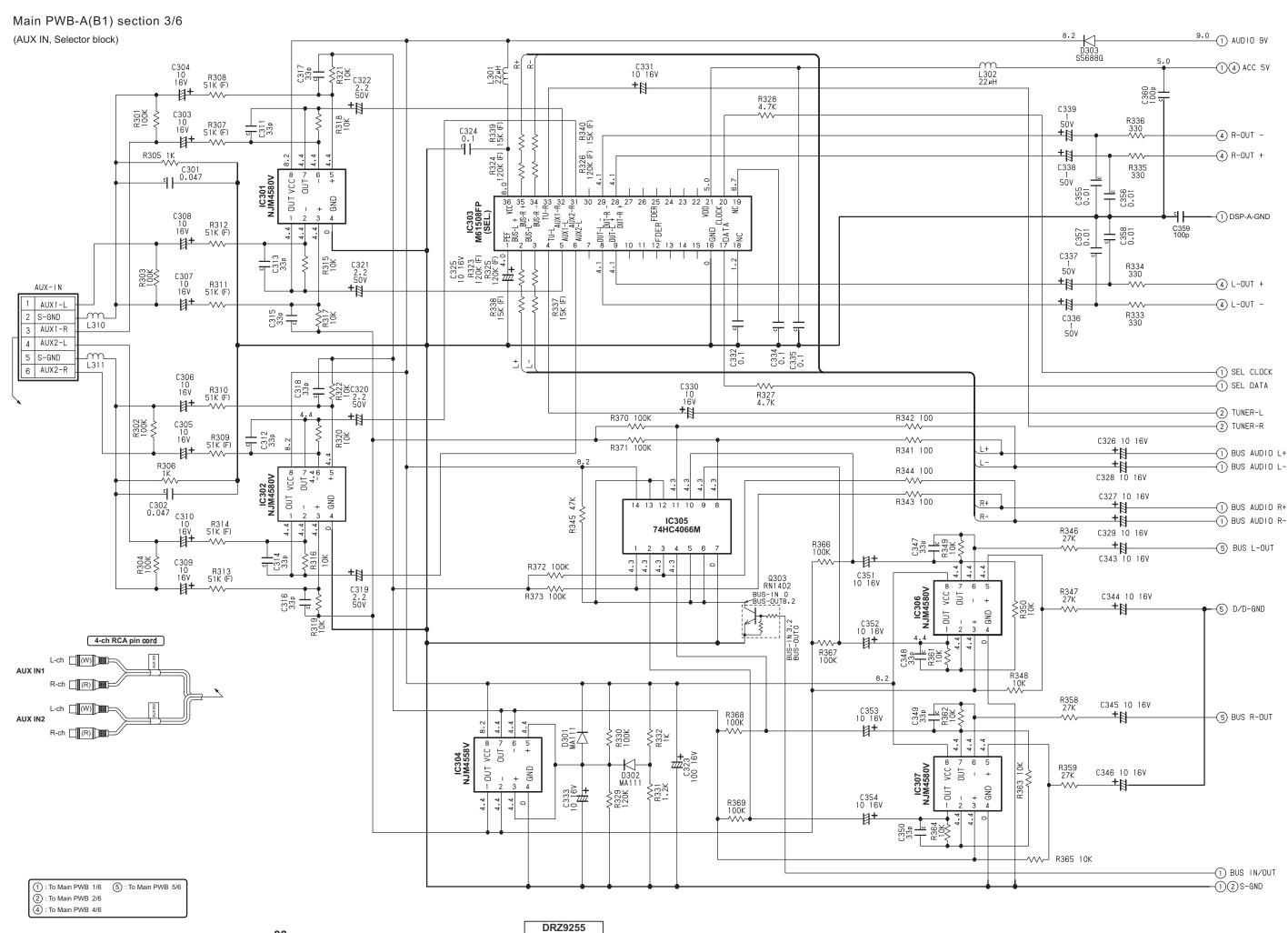
HX-D2

(Tuner block)

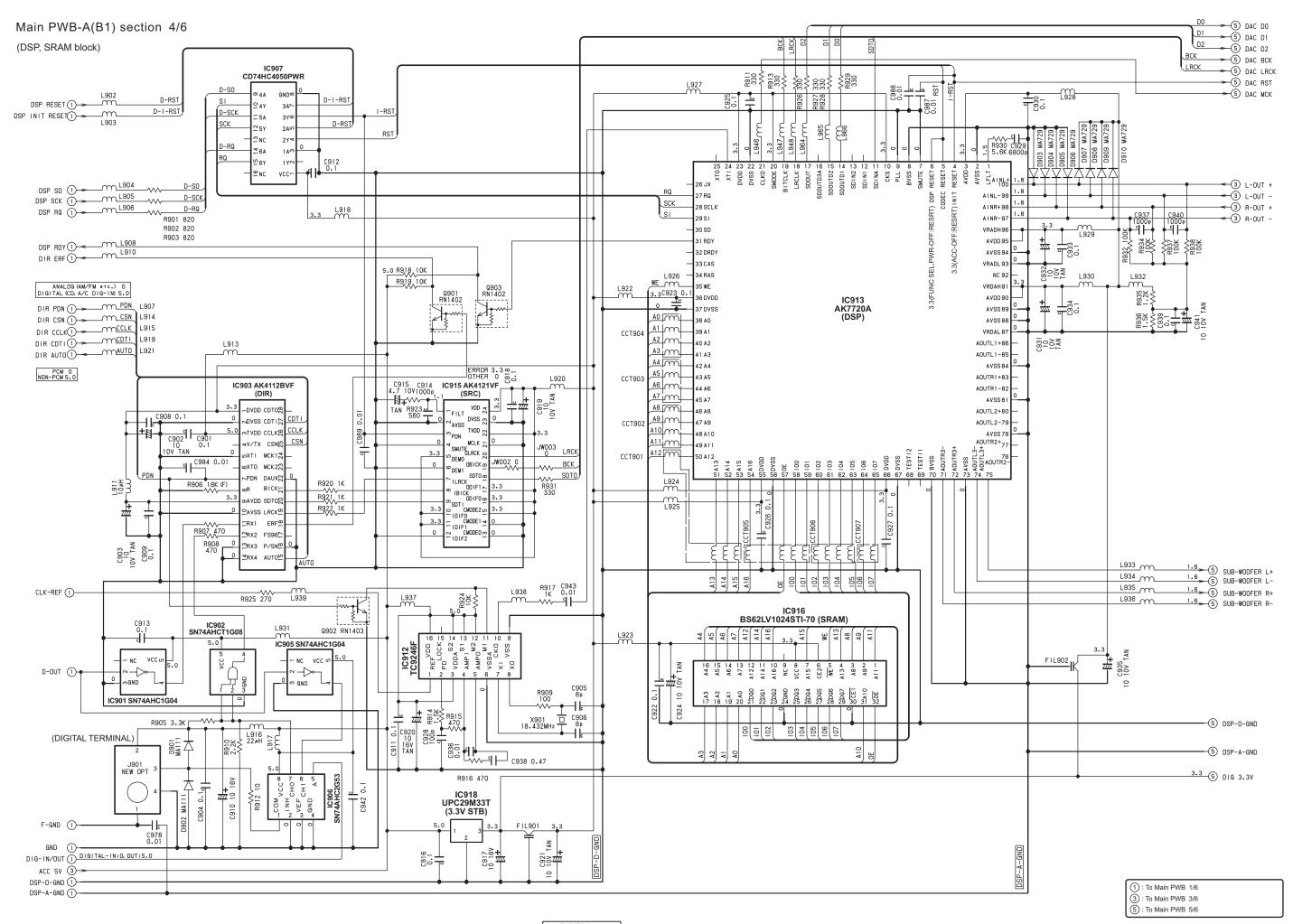


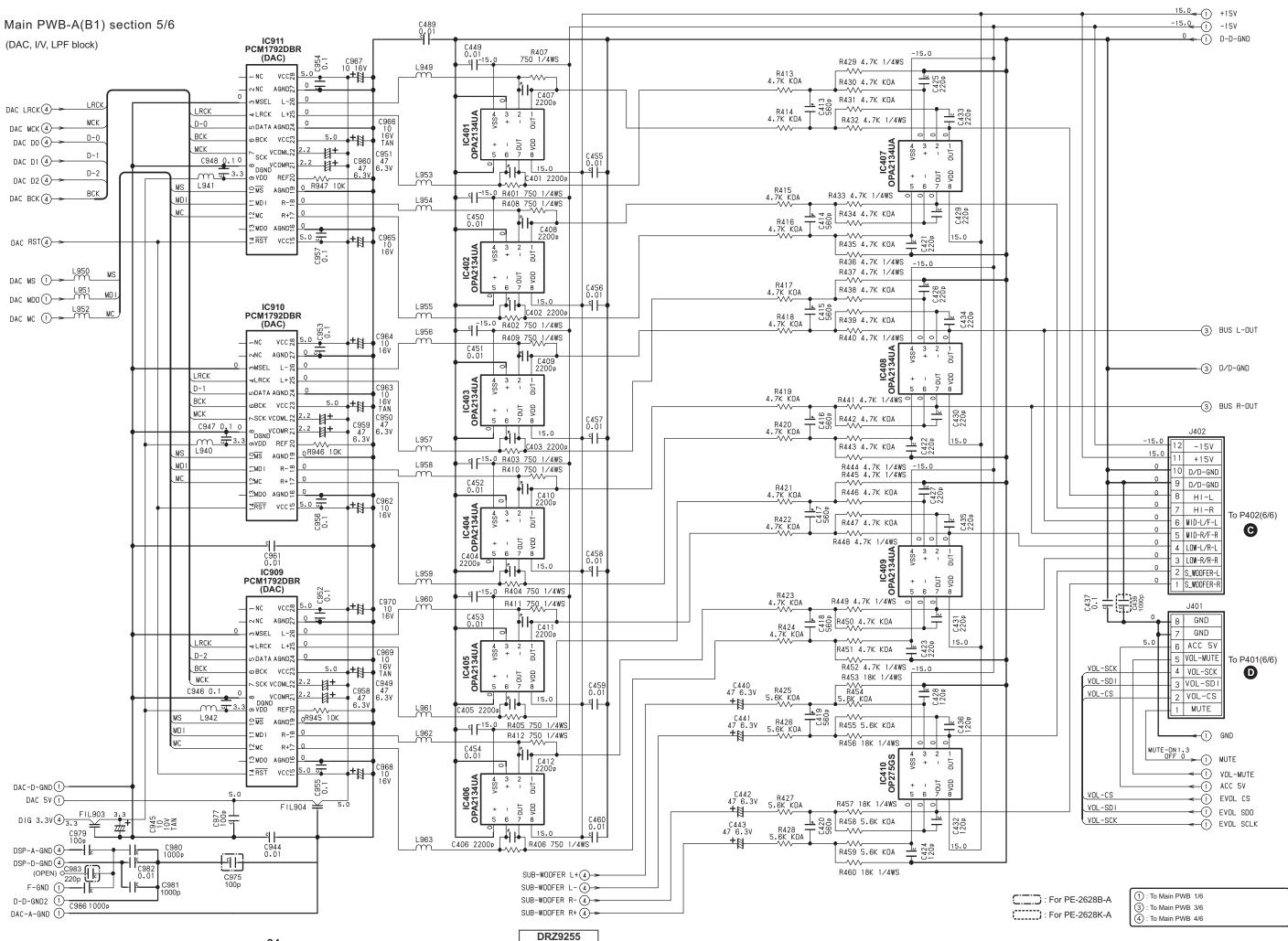
<sup>1 :</sup> To Main PWB 1/6

② : To Main PWB 2/6 ③ : To Main PWB 3/6



HX-D2



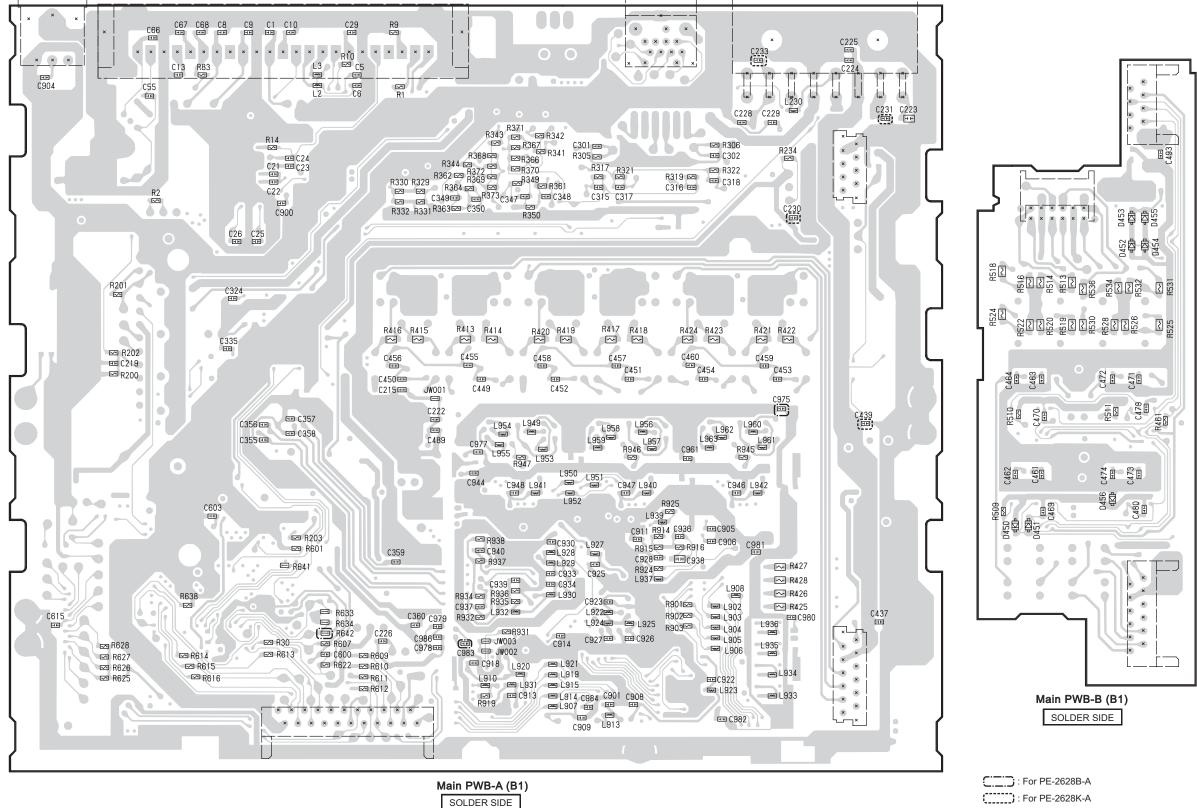


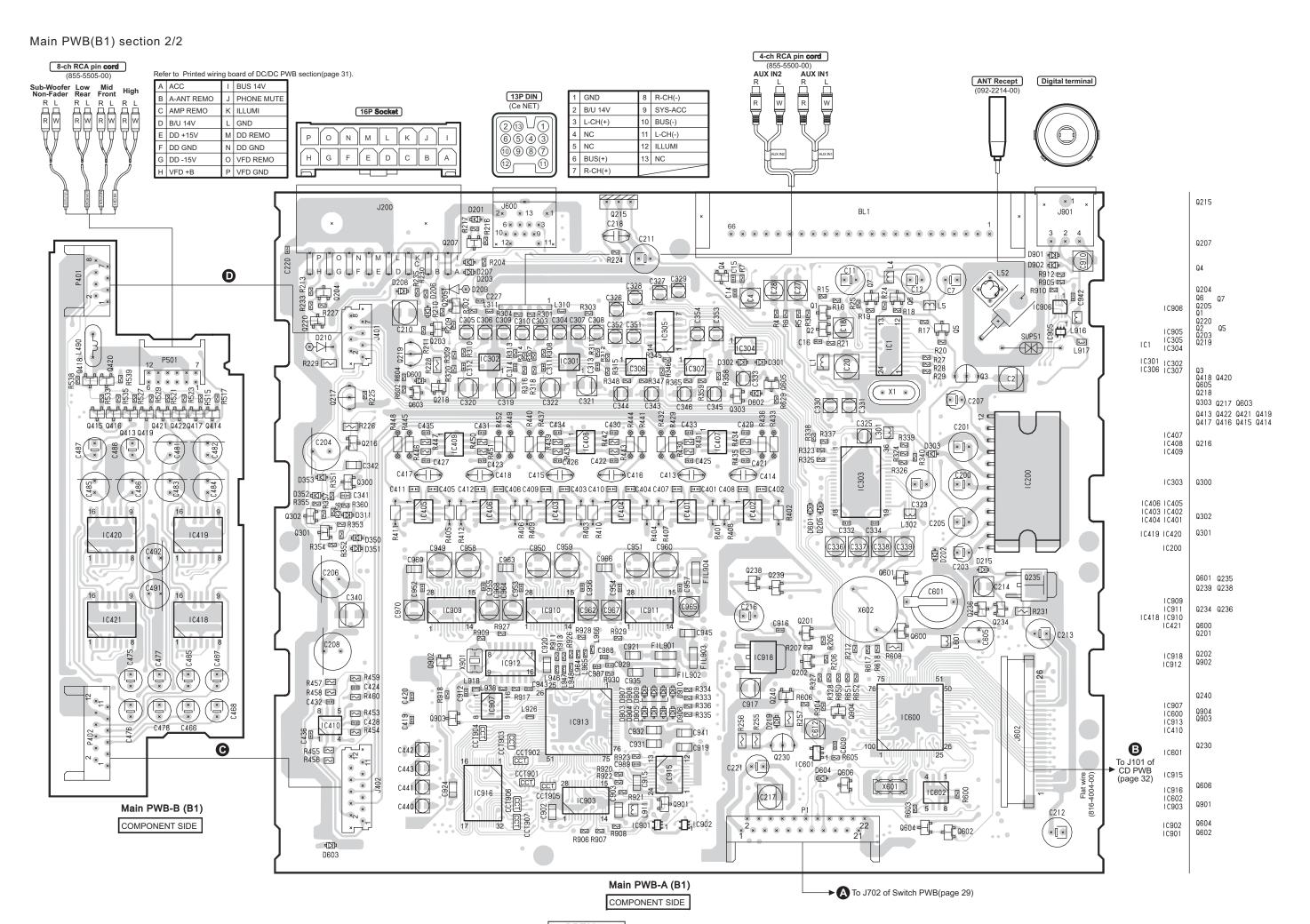
HX-D2

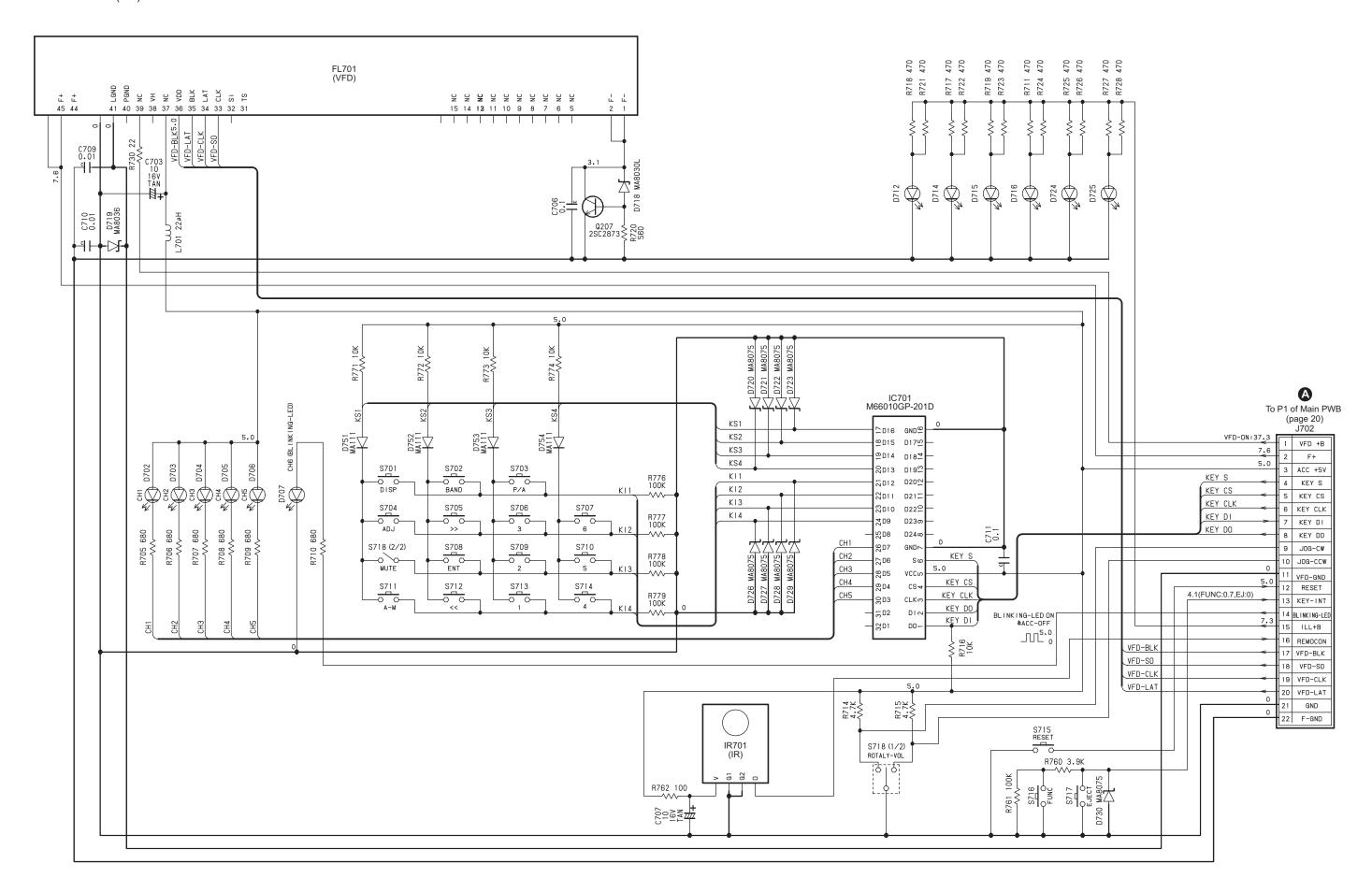
#### Caution:

COMPONENT SIDE: Parts on the component side seen from the component side are indicated.

SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

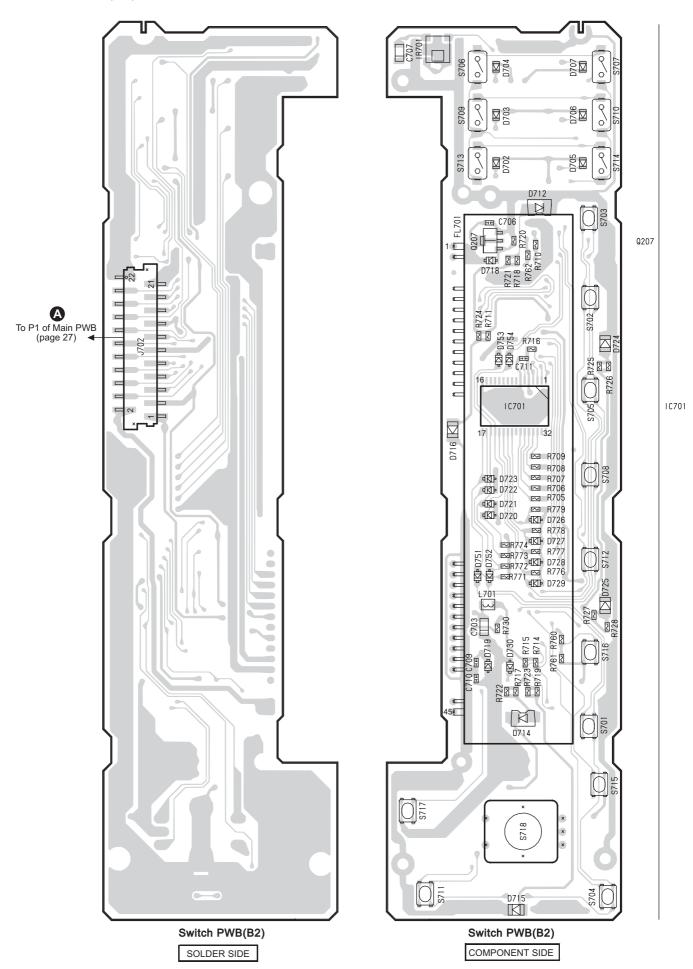




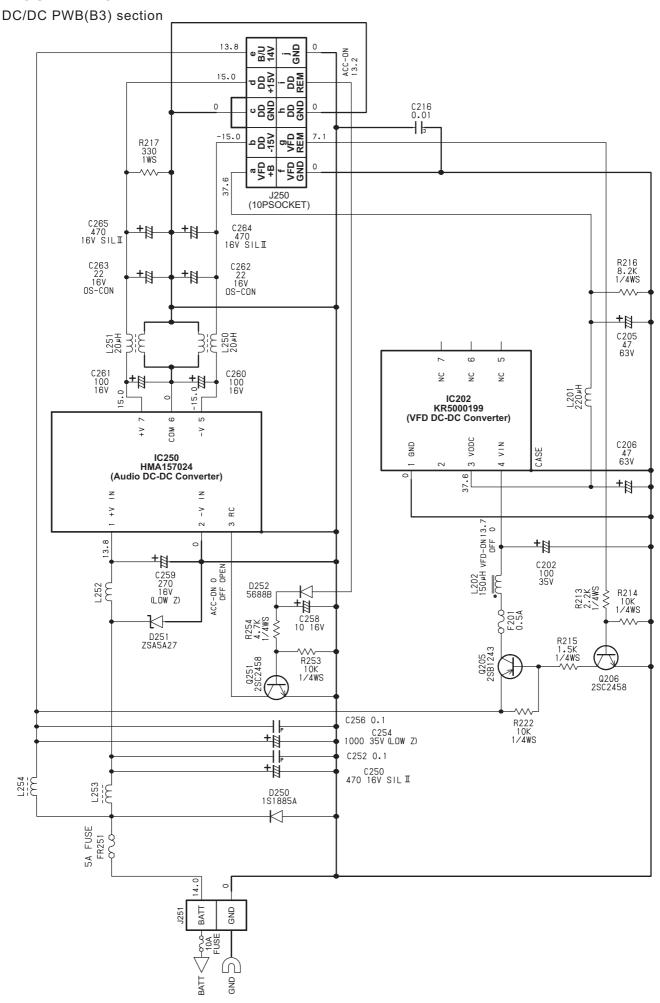


## PRINTED WIRING BOARD

Switch PWB(B2) section

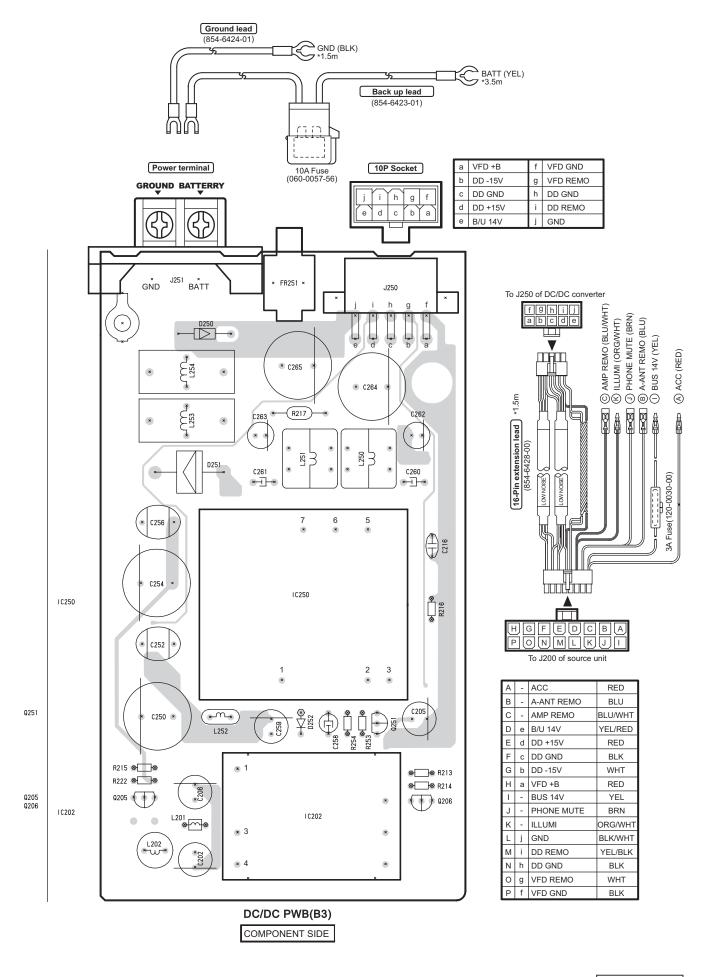


# **CIRCUIT DIAGRAM**



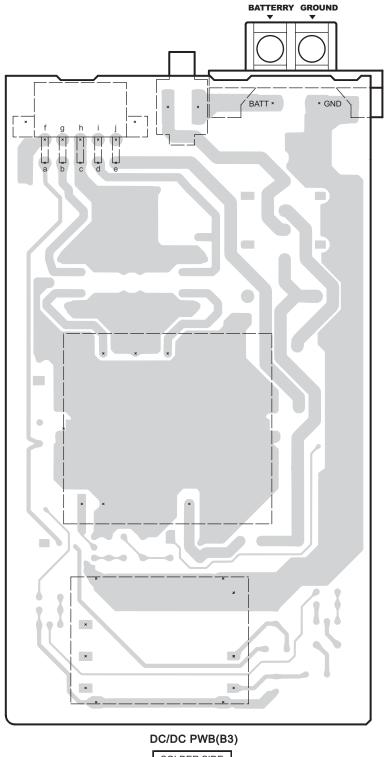
# PRINTED WIRING BOARD

DC/DC PWB(B3) section



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DRZ9255 HX-D2



SOLDER SIDE

## PRINTED WIRING BOARD

CD PWB(B4), LED PWB(B5) section

